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A Check List of Porto Rican Fungi.

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THE JOURNAL
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A CHECK LIST OF PORTO RICAN FUNGI AND A HOST
INDEX.¹

By JOHN A. STEVENSON, Pathologist, Insular Experiment Station.

INTRODUCTION.

Published information concerning the fungi of Porto Rico is scattered through a considerable number of articles, which have been issued to a large extent outside the Island, so as not to be readily available to those attempting the study of this group of plants locally. For this reason it has been considered desirable to compile and present in one publication a list of all fungi reported from or known to occur in Porto Rico, together with the host plants or substrata on which the various species occur. For convenience of reference an index to the hosts is also given, as well as a list of such publications on island species as have been encountered.

It is very clearly realized that the species here listed do not by any manner of means represent the complete fungus flora of the Island. The list may rather be considered as a starting point for more intensive work, and it is hoped that the publication and distribution of this preliminary paper may stimulate interest among local collectors, and so bring about important additions to the list. It should be easily possible to double the number of species here reported. In fact, the working up of the undetermined material now in the herbarium of this Station will add considerably to the number of species known, and similarly the as yet unnamed portions of the collections of Dr. Stevens and other collectors give promise of many species new to the Island.

History of work with Porto Rican fungi.

The earliest recorded collection of the fungi of Porto Rico was made in 1854 by Carl Schwanecke, for the most part in the vicinity

¹ Exclusive of the lichens or algicelous fungi.

of Humacao, and the specimens were determined by Klotzsch, who listed them in *Linnæa* (50).¹ It was not until 1884-87 that further collections were made, during which period P. Sintenis visited various parts of the Island. The fungi gathered by him were worked over by J. Bresadola, P. Hennings, and P. Magnus and their determinations were published in 1893 (76). A recapitulation of these two lists was given by Heller (35) in 1900.

The work of these two collectors was apparently all that was accomplished during the time of Spanish sovereignty. As far as known to the writer the late Dr. Stahl made no mention of fungi in his writings, although he did serve at one time on a royal commission appointed to study a cane disease.

Since the change in government in 1898 the collecting and studying of the fungi has been carried on by workers connected with the experiment stations, and by a number of northern botanists who have made collecting trips to the Island.

Since the year 1903, the reports of the Federal Experiment Station at Mayagüez have contained references to various fungi from an economic standpoint. These have included notes by Barrett (6-9) on diseases of oranges, *yautía*, vegetables and other crops, by Henricksen (36) on diseases of vegetables, and by Fawcett (22-32) on diseases of coffee, sugar cane, citrus, banana, cacao, and vanilla. The latter has in addition to his annual reports as pathologist of the Station published a bulletin on coffee diseases (31), and a short article on *Pellicularia* (28). Some of the entomogenous fungi have been mentioned by Tower (100). A banana disease due to a vascular fungus parasite has been studied by Brandes (10, 11) of the same institution.

Work on the fungi as disease-producing agents of sugar cane was immediately taken up at the experiment station of the Sugar Producers' Association following its establishment in 1910. Reports of this work were issued from time to time as publications of the station (38-48). Following the transfer of the institution to the Insular Government, studies were begun on diseases of other crops in addition to the sugar-cane investigations. Results obtained have been issued in the various station publications prepared by the present pathologist (84-96). These have been concerned with diseases of citrus, vegetables, and minor economic plants.

The first of the American botanists to collect fungi, at least to any great extent, was A. A. Heller, who together with Mrs. Heller

¹ Figures in Parenthesis refer to "Literature cited," p. 250.

made an extensive collecting trip during the early part of 1900. The determinations of their specimens, including seventeen new species, were made by Prof. F. S. Earle (19). Some time later the same mycologist published additional notes on the same collection, for the most part as new species (21). Professor Earle himself (20) made a visit of exploration in 1903, giving most attention to fungi attacking economic plants.

Dr. G. P. Clinton, at the request of the Experiment Station, spent some time on the Island in 1904, in connection with a threatened outbreak of coffee rust, and collected some fungi, particularly the smuts. Prof. E. D. Holway collected rust fungi in about 1910. His specimens are reported upon by Dr. Arthur (3), in connection with the Stevens' collection.

Fungi have been collected to some extent on the various field expeditions of Dr. N. L. Britton, director-in-chief of the New York Botanical Garden, and members of his staff. These specimens have been described or mentioned in the publications of the mycologists of the Garden.

Dr. Bruce Fink of Miami University spent several months in 1915-16 collecting in various parts of the Island, giving particular attention to the lichens and Ascomycetes, but has as yet published only a preliminary paper (33). A report of his findings should very materially add to the number of known species.

During the same year Dr. E. W. Olive of the Brooklyn Botanic Garden, and Prof. H. H. Whetzel of Cornell University, made a very complete collection of the rusts, together with some other fungi. The rusts were worked over and reported by Dr. Arthur (4), and in part by themselves (71).

The most extensive fungus collections have been made by Dr. F. L. Stevens, now of the University of Illinois. These specimens were gathered during the period of his deanship of the College of Agriculture of Porto Rico and during one subsequent trip (79). The number of specimens obtained totaled several thousands. The rusts of this collection have been enumerated by Dr. Arthur (3), and Dr. Stevens and several of his students have worked on other groups (16, 17, 34, 51, 60, 61, 80, 81, 82, 83, 103, 104). Their studies have resulted in a very large number of species being reported as new, particularly in the genera *Meliola*, *Cercospora*, *Phyllosticta*, and *Mycosphaerella*.

An interesting phase of the subject of Porto Rican fungi, and one of no little importance, is that of species connected with certain human diseases. One article only has been seen treating of fungi

from this viewpoint, but there doubtless are others. Dr. King in the paper in question (49) mentions *Epidermophyton cruris* (*tinea cruris*), *Cladosporium Mansonii* (black ringworm), and *Malassezia tropica* (*tinea flava*), all causing skin diseases.

Acknowledgments.

Acknowledgment must be made for help received during the preparation of this list from a considerable number of sources. Several mycologists have worked over portions of the collections of the Insular Experiment Station and furnished determinations. These have included Dr. F. J. Seaver, and Dr. Wm. A. Murrill, New York Botanical Garden; Dr. E. A. Burt, Missouri Botanical Garden; Prof. C. G. Lloyd; Dr. W. C. Sturgis; and Dr. C. R. Orton, Pennsylvania State College. I am also indebted to Dr. Seaver for permission to use data from a preliminary list of the Porto Rican fungi deposited in the portion of the herbarium of the New York Botanical Garden under his charge, as well as for other favors. Drs. Burt, Sturgis, and Orton and Professor Lloyd have examined and made suggestions as to corrections in portions of the manuscript submitted to them. Mr. H. E. Thomas, formerly of the Mayagüez Experiment Station, has furnished information from his notes. From Dr. Olive and Professor Whetzel I have received a set of the specimens collected by them during their visit to the Island, in so far as the material has been worked up. This has afforded a considerable amount of additional data.

To Dr. Stevens of the University of Illinois I am particularly indebted for copies of his publications on Porto Rican fungi, and for the loan of a card index of fungi and hosts, based on his collections.

Plan of the work.

It is the aim of the present list to record the fungi reported as occurring in Porto Rico, together with the hosts or substrata, the localities in which they have been collected, the name of the respective collectors, and all bibliographical citations. When the collector has been other than a member of the staff of the Insular Experiment Station, past or present, his name is given in parenthesis following the localities. Semicolons, it will be noted, are used to separate the work of different collectors. Our own collections are cited first, followed by such others as have been made. Where more than one collection has been made in the same locality the earliest in point of

time is given as a rule. In some instances the first collection found in working up the list has been used.

Those who have made the collections represented in the herbarium of the Insular Experiment Station are Mr. John R. Johnston, pathologist 1910-1914, to whom credit is due for initiating not only the herbarium but the other botanical work of the Station; the writer, assistant pathologist 1913-14, pathologist and botanist to date; Mr. R. C. Rose, assistant pathologist 1916-17.

No attempt has been made at a critical study of the species listed. It is realized that many of those given will in the course of time be recombined, reduced to synonymy, or otherwise changed in name, but neither time nor facilities are available here for systematic work of this nature. The system of classification used is entirely one of convenience and has no other significance, either as a proposed new plan, or even as the personal views of the writer.

MYXOMYCETES.¹

CERATIOMYXACEÆ.

CERATIOMYXA FRUCTICULOSA (Muell.) Macbr.

On rotten wood, Palo Seco.

PHYSARACEÆ.

PHYSARUM CINEREUM (Batsch.) Pers.

Fruiting on living leaves and stems of *Phaseolus vulgaris*, *Saccharum officinarum*, *Lactuca sativa*, *Vigna unguiculata*, and other plants, Río Piedras, Martín Peña, Manatí (48).

PHYSARUM COLUMBINUM (Rost.) Sturgis.

(*Tilmadoche compacta* [Wing.] McB.) (82).

On rotten wood, Río Piedras.

PHYSARUM COMPRESSUM Alb. & Schw.

On Sugar-cane debris, Cortada (48).

PHYSARUM DIDERMOIDES (Ach.) Rost.

On rotten wood, Río Piedras.

PHYSARUM PUSILLUM (B. & C.) List.

(*Physarum nodulosum* [Cooke & Balf.] Mass.)

On rotten sacking, and also found fruiting on living sugar-cane leaves, Río Piedras (48).

PHYSARUM VIRIDE (Bull.) Pers.

On rotten wood, Moca, Río Piedras.

¹ The determinations in this group were made for the most part by Dr. William C. Sturgis.

FULIGO SEPTICA (L.) Gmel.

(*Fuligo ovata* [Schaeff.] Macbr.) (48).On dead cane leaves, banana debris, rotten wood, Pueblo Viejo,
Sabana Llana, Río Piedras, Juana Díaz (48).

CRATERIUM AUREUM (Schüm.) Rost.

On humus and cane trash, fruiting at times on living stalks and
leaves, Ponce, Río Piedras (48).

CRATERIUM LEUCOCEPHALUM (Pers.) Ditm.

On dead leaves and debris, fruiting at times on living sugar-cane
leaves, Pueblo Viejo, Río Piedras (48).

DIDERMA EFFUSUM (Schw.) Morg.

On dead leaves of *Pandanus utilis*, Río Piedras.

DIDERMA SPUMARIOIDES Fr.

On dead leaves and rotten wood, Martín Peña.

DIACHÆA LEUCOPODA (Bull.) Rost.

var. GLOBOSA List.

On dead grass and leaves, Río Piedras. Reported by Stevens
on *Pitcairnia angustifolia*, Naguabo, Sta. Ana (82).

DIDYMIACEÆ.

DIDYMIUM NIGRIPES (L.) Fr.

Fruiting on living leaves of *Wedelia trilobata*, and *Commelina
nudiflora*, Pueblo Viejo, Río Piedras.

STEMONITACEÆ.

COMATRICHCHA LANGA Peck.

On dead wood, Porto Rico (Stevens) (82).

STEMONITIS FUSCA Roth.

On sugar-cane trash, Río Piedras (48).

STEMONITIS HERBATICA Pk.

On rotten wood, Pueblo Viejo.

STEMONITIS SPLENDENS Rost.

On rotten wood and cane trash, Río Piedras, Martín Peña, Vega
Baja (48).

CRIBRARIACEÆ.

DICTYDIUM CANCELLOSUM (Batsch.) Macbr.

On dead sugar-cane leaves and stalks, Río Piedras (48).

TUBULINACEÆ.

TUBIFERA FERRUGINOSA (Batsch.) Gmel.

On rotten wood, Palo Seco.

LYCOGALACEÆ.

LYCOGALA EPIDENDRUM (L.) Fr.

On rotten wood and sugar-cane trash, Río Piedras, El Duque (48).

ARCYRIACEÆ.

ARCYRIA DENUDATA (L.) Sheld.

On rotten wood and sugar-cane trash, Río Piedras, Martín Peña, (48).

ARCYRIA CINEREA (Bull.) Pers.

On rotten wood and sugar-cane trash, Río Piedras, Pueblo Viejo (48).

ARCYRIA PUNICEA Pers.

Reported from Fajardo in the Schwanecke collection (50).

TRICHIACEÆ.

HEMITRICHIA VESPARIUM (Batsch.) Macbr.

On rotten wood, Río Piedras.

HEMITRICHIA CLAVATA (Pers.) Rost.

On rotten wood, Martín Peña.

SCHIZOMYCETES.

COCCACEÆ.

MICROCOCCUS NIGROFACIENS Northrup.

Causing a disease of various stages of *Phyllophaga* spp., Río Piedras, Guánica (69, 78).

BACTERIACEÆ.

BACILLUS CAROTOVORUS Jones.

Producing a soft rot of carrots, cabbages, celery, and other vegetables, Río Piedras.

BACILLUS MESENTERICUS (Flügge) L. & N.

Causing "ropy" bread, Río Piedras, San Juan.

BACILLUS PRODIGIOSUS (Ehr.) L. & N.

Occasional as a contamination of cultures, Río Piedras.

BACILLUS RADICICOLA Bey.

Common on a wide range of leguminous hosts.

BACILLUS SUBTILIS (Ehr.) Cohn.

Common as a contamination in poured plates, Río Piedras.

BACTERIUM CAMPESTRIS Pamm.

On *Brassica oleracea*, Mayagüez (Thomas) (36, 90).

BACTERIUM PHASEOLI Er. Sm.

On *Phaseolus vulgaris*. Causes a serious leaf and pod disease, Río Piedras (90, 94).

BACTERIUM SOLANACEARUM Er. Sm.

Causing a serious wilt disease of *Lycopersicum esculentum*, *Solanum melongena*, *Nicotiana tabacum*, *Solanum tuberosum*, Río Piedras. A wilt disease of *Helianthus annuus*, probably attributable to this species reported by Thomas (15, 36, 56, 77, 90, 94).

PHYCOMYCETES.

CHYTRIDIACEÆ.

OEPIDIELLA UREDINIS Lagerh.

On *Puccinia levis* on *Rytilex granularis* (*Manisuris granularis*), Maricao (Sintenis) (76).

SYNCHYTRIUM DECIPIENS Farl.

On *Rhynchosia reticulata*, Palo Seco; Quebradillas, Cabo Rojo (Stevens) (82).

PERONOSPORACEÆ.

ALBUGO BLITI (Biv.) Kuntze.

On *Amaranthus viridis*, Río Piedras, Barceloneta.

Amaranthus spinosus, Barceloneta (82, 101).

ALBUGO CANDIDA (Pers.) Kuntze.

On *Brassica integrifolia*, Río Piedras.

Brassica japonica, Barranquitas.

Lepidium virginicum, Comerío, Bayamón; Río Tanamá (Stevens) (82).

ALBUGO IPOMŒÆ-PANDURANÆ (Schwein.) Swingle.

On *Ipomoea* sp., Espinosa; Río Piedras, Peñuelas, Mona (Stevens).

Ipomoea batatas, Río Piedras, Vega Baja, Pueblo Viejo; Monte de Oro, Río Tanamá, Consumo, Arecibo, Manatí, Corozal, Luquillo, Boquerón, Guánica, Guayanilla (Stevens) (82, 90, 94).

Ipomoea pes-caprae, Cataño, Punta Cangrejos; Dos Bocas, Guánica, Boquerón, Mayagüez (Stevens) (82).

Ipomoea pes-tigridis, Guayama.

Ipomoea rubra, Río Piedras.

ALBUGO IPOMÆÆ-PANDURANÆ (Schwein.) Swingle—*Continued.*

On *Ipomœa tiliacea*, Garrochales, Río Piedras; San Germán (Stevens).

Jacquemontia nodiflora, Guayanilla, Mona Island (Stevens) (82).

Jacquemontia pentantha, Vega Baja.

Thyella tamnifolia, Río Piedras (101).

ALBUGO PLATENSIS (Speg.) Swing.

On *Bærhaavea erecta*, Guánica (Stevens) (82).

Bærhaavea hirsuta (Goll.) (101).

Bærhaavea panniculata, Culebra (Britton).

ALBUGO PORTULACÆ (D. C.) Kuntze.

On *Portulaca oleracea*, Mayagüez (Stevens) (82).

PERONOPLASMOPORA CUBENSIS (B. & C.) Clint.

On *Cucumis melo*, Río Piedras, Mayagüez (36, 90, 94).

Cucumis sativus, Río Piedras, Mayagüez.

Cucurbita moschata, Río Piedras, Mayagüez.

Luffa cylindrica, Río Piedras (Stevens) (82).

PHYTOPHTHORA INFESTANS (Mont.) De Bary.

On *Lycopersicum esculentum*, Mayagüez; Maricao (W. & O.) (36, 90, 94).

Solanum tuberosum, Mayagüez (Thomas).

PHYTOPHTHORA PHASEOLI Thax.

On *Phaseolus lunatus*. Reported by Henricksen (36).

PHYTOPHTHORA TERRESTRIA Sherb.

On *Capsicum annuum*, Río Piedras.

Lycopersicum esculentum, Río Piedras, San Juan.

Phaseolus vulgaris, Río Piedras (90, 94).

The cause of a serious disease of beans and tomatoes.

MUCORACEÆ.**CHOANEpora CUCURBITARUM** (Berk. & Rav.) Thax.

On *Hibiscus esculentus*, Río Piedras. Causing a disease of the flowers and young pods.

PILOBOLUS CRYSTALLINUS Tode.

On horse manure, Río Piedras.

RHIZOPUS NIGRICANS Ehr.

Producing a soft rot of sweet potatoes, also as a bread mold, and contamination in cultures, Río Piedras (89, 96).

ENTOMOPHTHORACEÆ.

EMPUSA FRESENII Now.

On *Pseudococcus nipæ* on *Chrysophyllum argenteum*, Río Piedras.

on *Acalypha Wilkesiana*, Río Piedras.

on *Erythrina glauca*, Río Piedras.

Phenococcus sp., on *Psidium guayaba*, Río Piedras (46).

EMPUSA SPHÆROSPERMA (Fres.) Thaxt.

On *Laphyigma frugiperda*, Río Piedras (46).

ENTOMOPHTHORA AULICÆ Reich.

On *Epantheria eridanus*, Naguabo, Río Piedras (46).

ASCOMYCETES.

SACCHAROMYCETACEÆ.

SACCHAROMYCES APICULATUS Reess.

Isolated from fermenting cacao and coffee (Loew) (57).

SACCHAROMYCES CEREVISIÆ Hansen.

Bread and brewer's yeast.

SACCHAROMYCES ELLIPSOIDEUS Hansen.

Isolated from fermenting cacao and coffee (Loew.) (57). and fermented grapefruit juice, Río Piedras.

PHYMATOSPHÆRIACEÆ.

MYRIANGIUM DURLÆI Mont. & Berk.

On *Aulacaspis pentagona* on *Solanum rugosum*, Río Piedras, on *Cajanus indicus*, Sabana Llana.

Hemichionaspis minor on undet. vine, Palo Seco.

Howardia biclavis on *Guettarda scabra*, Río Piedras.

Lepidosaphes beckii, and *Chionaspis citri* on *Citrus* spp., Sabana Llana, Río Piedras, Pueblo Viejo, Bayamón, Santurce, Espinosa, Vega Baja, Garrochales.

Very common everywhere on scale insects, parasitic to some extent at least (20, 46, 96, 100).

ERYSIPHACEÆ.¹

ERYSIPHE CICHORACEARUM D. C. (?).

On *Cosmos caudatus*, Sta. Ana, Río Tanamá (Stevens).

Eupatorium microstylum, Maricao (Stevens).

Solanum torvum, Rosario, Naguabo, Cabo Rojo, Maricao, Arecibo, Peñuelas, Mayagüez (Stevens) (82).

¹ All determinations in this family are provisional only, the conidial or *Odium* stage only having been found in all cases.

ERYSIPHE GALEOPSIDIS D. C. (?).

On *Eupatorium* sp., Ponce (Stevens) (82).

ERYSIPHE POLYGONI D. C. (?).

On *Arracacia xanthorrhiza*, Indiera Fría (Stevens).*Cassia occidentalis*, Guayama, Río Piedras, Rosario, Peñuelas, Arecibo-Lares, Cabo Rojo, Manatí (Stevens).*Cassia tora*, Palo Seco; Maricao, Quebradillas, Aguada, Peñuelas, Guayanilla, San Germán, Guayama, Adjuntas, Mayagüez (Stevens).*Chamæcrista æschynomene*, Palo Seco.*Chamæcrista diphylla*, Espinosa.*Chamæcrista* sp., Peñuelas (Stevens).*Dolicholus minima*, Carolina.*Dolichos biflorus*, Río Piedras.*Phaseolus adenanthus*, Aguada (Stevens).*Phaseolus max*, Río Piedras.*Phaseolus vulgaris*, Río Piedras.*Pisum sativum*, Río Piedras.*Vigna repens*, Mayagüez (Stevens) (82).*Vigna unguiculata*, Río Piedras (90, 94).

MICROSPHÆRA DIFFUSA D. C. (?).

On *Crotalaria retusa*, Sta. Ana, Coamo (Stevens).*Meibomia* sp., Rosario, Mona Island (Stevens).*Meibomia adscendens*, Utuado (Stevens).*Meibomia scorpiurus*, Manatí, Guayama (Stevens).*Meibomia supina*, Utuado, Jayuya (Stevens).*Meibomia tortuosa*, Sabana Llana, Río Piedras; Peñuelas, (Stevens) (82).

MICROSPHÆRA EUPHORBIÆ (Pk.) B. & I. (?).

On *Chamæsyce brasiliensis*, Mona Island (Stevens).*Chamæsyce hypericifolia*, Mona Island, Jájome Alto (Stevens).*Hibiscus sabdariffa*, Mayagüez (Stevens).*Manihot manihot*, Río Piedras (Stevens) (82).

SPHÆROTHECA HUMULI (D. C.) Burr. (?).

On *Bidens leucantha*, Palo Seco.*Bidens reptans*, Vega Baja, Maricao (Stevens) (82).*Cosmos* sp., Jayuya (Stevens).*Melanthera canescens*, Utuado (Stevens).*Ocimum micranthum*, Utuado (Stevens).*Rosa* sp., Maricao (Stevens).*Verbena* sp., Maricao (Stevens).

PERISPORIACEÆ.

ANTENNULARIA (?) TENUIS Earle.

On *Musa* sp., and *Inga vera* (Heller) (21).

CAPNODIUM CITRI Berk. & Desm.

On *Citrus decumana*, Sabana Llana, Espinosa, Campo Alegre, Pueblo Viejo, Vega Baja (96).

DIMERIELLA CORDIÆ (P. Henn.) Th.

On *Cordia sulcata*, Mayagüez (Stevens) (82).

DIMERIELLA ERIGERONICOLA Stevens.

On *Erigeron pusillum*, Maricao (Stevens).

Erigeron spathulatus, Quebradillas, Maunabo, Yauco, El Gigante, Maricao (Stevens) (82).

Leptilon canadense, Río Piedras, Trujillo Alto, Vega Baja, Camuy, Arecibo.¹

DIMERIELLA OLYRE Stevens.¹

On *Olyra latifolia*, Río Piedras, Preston's Ranch, Maricao, Mayagüez (Stevens) (82).

DIMERINA JACQUINIE Garman.

On *Jacquinia barbasco*, Mona Island (Stevens) (34).

DIMERIOPSIS ARTHROSTYLIDICOLA Stevens.

On *Arthrostylidium sarmentosum*, Monte Alegrillo (Stevens) (82).

DIMERIUM CAYAPONIÆ Garman.

On *Cayaponia americana*, Utuado (Stevens) (34).

DIMERIUM GRAMMODES (Kuntze) Gar.

On *Crotalaria retusa*, Trujillo Alto, Pueblo Viejo; Guayama, Cabo Rojo (Stevens). From Mayagüez as *Parodiella perisporioides* (Heller collection) (19).

Meibomia adscendens, Río Piedras.

Meibomia barbata, Río Piedras (Stevens); Añasco (W. & O.) (82).

Meibomia sp., Espinosa, Río Piedras.

Phaseolus lunatus, Aguadilla (Stevens).

Phaseolus vulgaris, Río Piedras (81).

Vigna repens, Río Piedras (34).

¹ In comparing the descriptions, the great similarity between those of *Dimeriella Olyrae* and *Asterina fumagina* was noted. In response to a request for an opinion in the matter, Dr. Stevens replied as follows:

"The species as published by Dearness and Barth. is based upon specimen No. 190 of my collection. My species, *Dimeriella olyrae*, is based upon my specimen No. 6770, but the two are co-specific and the publication of Dearness & Barth. clearly has the priority.

"In the light of modern publications on this group, I believe that this fungus should be placed in the genus *Dimeriella* of Spegazzini, and therefore suggest the following:

"*Dimeriella fumagina* (Dearn. a Barth.) Stevens, comb. nov.

"(*Asterina fumagina* Dearn. & Barth.)

"(*Dimeriella olyrae* Stevens.)"

DIMERIUM MELILOOIDES (Berk. & Curt.) Gar.
On *Clusia rosea*, Maricao (Stevens) (34).

DIMERIUM STEVENSH Garman.

On *Cordia corymbosa*, Río Piedras; Quebradillas, Mayagüez, Maricao (Stevens) (34).

DIMEROSPORIUM APPENDICULATUM Earle.

On *Asterina sidæ* on *Sida carpinifolia* (21).

DIMEROSPORIUM TROPICALE Speg.

On *Meliola* sp., on *melastomaceous* plant. Coll. N. Y. Bot. Garden.

EUROTIUM ARGENTINUM Speg.

On dead sugar-cane stalks, Río Piedras (48).

EUROTIUM HERBARIUM Lk.

On dried herbarium specimens, Río Piedras.

HYALODERMA PILIFERUM Pat.

On *Meliola* on a grass, Santuree. Coll. N. Y. Bot. Garden (82).

MELIOLA AIBONITENSIS Stevens.

On *dicotyledonous* plant, Aibonito (Stevens) (80).¹

MELIOLA AMBIGUA Pat. & Gaill.

On *Lantana camara*, Dos Bocas, below Utuado, Río Arecibo (Stevens).

Lantana odorata, Quebradillas (Stevens).

Lantana sp., Quebradillas, Dos Bocas (Stevens).

MELIOLA AMOMOMICOLA Stevens.

On *Amomis caryophyllata*, Mayagüez (Stevens).

MELIOLA AMPHITRICA Fr.

On *Randia aculeata* (?), Caguas (Heller collection).

Tetragastris balsamifera (*Hedwigia balsamifera*). Sintenis collection (76).

MELIOLA ANDIRÆ Earle.

On *Andira jamaicensis*, Camuy, Mayagüez; Arecibo, Martín Peña, Yauco, Santana, Maricao, Dos Bocas, Vega Alta, Lares, Manatí (Stevens) (21).

MELIOLA ARECIBENSIS Stevens.

On *Acalypha biseptosa*, Vega Baja, Dos Bocas (Stevens).

MELIOLA BICORNIS Wint.

On *Bradburya pubescens*, Espinosa.

Bradburya virginiana, Arecibo-Lares Road, Manatí, Dos Bocas, Vega Baja, Quebradillas (Stevens).

¹ Since all species of *Meliola* known to the Island are treated in Dr. Steven's paper, "The Genus *Meliola* in Porto Rico," further citations to it are omitted.

MELIOLA BICORNIS Wint.—Continued.

On *Dalbergia monetaria*, Mayagüez, Arecibo-Lares, Maricao (Stevens).

Dalbergia sp., Mayagüez, Rosario (Stevens).

Dolicholos reticulatus, Río Piedras; Florida Adentro, Vega Baja, Lares, Quebradillas, Barceloneta, Río Tanamá (Stevens).

Erythrina mycopteryx, El Miradero (Stevens).

Lonchocarpus glaucifolius, Quebradillas (Stevens).

Meibomia adscendens, Río Piedras; El Alto de la Bandera (Stevens).

Meibomia axillaris, Río Piedras; Florida Adentro, Las Marías, Mayagüez, Río Arecibo, Río Tanamá (Stevens).

Meibomia supina, Cataño, Martín Peña, Maricao, Vega Baja, Mayagüez, Florida Adentro, Río Tanamá, Dos Bocas, El Gigante, Indiera Fría (Stevens).

Mimosa ceratonia, Maricao, Río Arecibo, Vega Baja, Aibonito (Stevens).

Tetramnus uncinatus, Maricao, Añasco (Stevens) (21).

MELIOLA BICORNIS var. CALOPOGONII Stevens.

On *Calopogonium orthocarpum*, Río Piedras; Dos Bocas, Mayagüez, Aguada (Stevens).

MELIOLA BICORNIS var. GALACTIÆ Stevens.

On *Galactia dubia*, Río Tanamá (Stevens).

MELIOLA BIDENTATA Cke.

On *Tabebuia hamantha*, Monte Alegrillo (Stevens).

Tecoma pentaphylla, Guanajibo (Stevens).

MELIOLA BYRSONIMÆ Stevens.

On *Brysonima lucida*, Guayanilla (Stevens).

MELIOLA CALOPHYLLI Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens).

MELIOLA CAPSICOLA Stevens.

On *Capsicum baccatum*, Manatí, Dos Bocas (Stevens).

MELIOLA CHAMÆCRISTÆ Earle.

On *Chamæcrista glandulosa* (Heller). Coll. N. Y. Bot. Garden (21).

MELIOLA CHAMÆCRISTICOLA Stevens.

On *Chamæcrista granulata*, Mona Island (Stevens).

MELIOLA CHIOCOCCEÆ Stevens.

On *Chiococca alba*, Vega Baja, Hormigueros (Stevens).

MELIOLA CIRCINANS Earle.

On *Mariscus jamaicensis*, Martín Peña; San Juan, Manatí (Stevens) (21).

Rynchospora aurea, Martín Peña (Heller).

Rynchospora gigantea, Martín Peña.

MELIOLA CLAVULATA Wint.

On *Ipomoea batatas*, Río Piedras; Vega Baja, Río Tanamá, Maricao (Stevens) (90).

Ipomoea cathartica, Río Arecibo, Vega Baja, El Alto de la Bandera (Stevens).

Ipomoea rubra, Río Piedras, Guaynabo.

Ipomoea tiliacea, Mayagüez (Stevens).

Ipomoea sp., Río Piedras, Espinosa; Sabana Llana, San Germán, Monacillo, Trujillo Alto, El Miradero, Mayagüez, Vega Alta (Stevens).

MELIOLA CLUSIÆ Stevens.

On *Clusia minor*, El Alto de la Bandera (Stevens).

MELIOLA COMOCLADÆ Stevens.

On *Comocladia glabra*, Rosario, Mayagüez, Maricao (Stevens).

Spondias mombin, Maricao (Stevens).

MELIOLA COMPACTA Earle.

On *Crossopetalum pallens*. Coll. N. Y. Bot. Garden (21).

MELIOLA COMPOSITARUM Earle.

On *Eupatorium odoratum*, Trujillo Alto, Río Piedras; Dos Bocas, Rosario, Maricao, Aibonito, Utuado, El Gigante, El Miradero, Las Marías, Río Tanamá, Mayagüez, Yauco, Cañaño, Jájome Alto (Stevens).

Eupatorium sp., Río Piedras, (Heller).

Willoughbæa sp., Adjuntas (Heller).

MELIOLA COMPOSITARUM var. *portoricensis* Steyens.

On *Eupatorium dolicholepis*, Río Tanamá (Stevens).

Eupatorium portoricensis, Camuy; Vega Baja, Dos Bocas, San Sebastián, Arecibo-Lares (Stevens).

MELIOLA CONTORTA Stevens.

On *Piper hispidum*, Las Marías (Stevens).

MELIOLA CUCURBITACEARUM Stevens.

On Cucurbit. undet., El Alto de la Bandera (Stevens).

MELIOLA CUPANÆ Stevens.

On *Cupania americana*, El Miradero (Mayagüez), Maricao, Dos Bocas, Quebradillas (Stevens).

Cupania sp., Quebradillas (Stevens).

MELIOLA CYCLOPODA Stevens.

On *Pseudelephantopus spicatus*, Vega Baja (Stevens).

MELIOLA CYPERI Pat.

On *Cyperus* sp., Mayagüez (Stevens).

Mariscus jamaicensis, San Juan (Stevens); Martín Peña (W. & O.).

Scleria sp., Manatí (Stevens).

MELIOLA DENTICULATA Wint.

On *Roystonea borinquena*, Arecibo-Lares (Stevens).

MELIOLA DIDYMOPANICIS P. Henn.

On *Dendropanax arboreum*, Manatí; Río Arecibo, Mayagüez (Stevens).

Dendropanax laurifolium, El Alto de la Bandera (Stevens).

MELIOLA DIEFFENBACHIAE Stevens.

On *Dieffenbachia seguine*, Río Piedras, Espinosa; Las Marías, Maricao, Cataño, Lajas, Monte de Oro, Dos Bocas, Mayagüez (Stevens).

MELIOLA DIPHOLIDIS Stevens.

On *Dipholis salicifolia*, Guayanilla, Quebradillas (Stevens).

MELIOLA EARLII Stevens.

On *Pilea nummularifolia*, Espinosa; Jájome Alto (Stevens).

Pilea parietaria, Río Arecibo (Stevens).

Pilea sp., Flórida Adentro (Stevens).

MELIOLA FURCATA Lev.

On *Acrista monticola*, El Alto de la Bandera, Luquillo Forest (Stevens).

Coccothrinax alta, Dos Bocas (Stevens).

Macrodiscus lactiflorus, Coamo (Stevens).

Thrinax ponceana, Guayanilla (Stevens) (81).

Thrinax praeceps, Dos Bocas (Stevens).

MELIOLA GAILLARDIANA Stevens.

On *Piper aduncum*, Río Arecibo, Dos Bocas, Las Marías (Stevens).

MELIOLA GESNERIAE Stevens.

On *Cestrum laurifolium*, Maricao (Stevens).

Cestrum macrophyllum, El Alto de la Bandera, El Gigante (Stevens).

Gesneria albiflora, Mayagüez, Dos Bocas (Stevens).

MELIOLA GLABRA Berk. & Curt.

On *Drypetes* spp., Río Tanamá (Stevens).

Hypelate trifoliata, Mona (Britton).

MELIOLA GLABRA var. *psyckotriae* Stevens.

On *Coccocypselum repens*, Maricao (Stevens).

Palicourea domingensis, Florida Adentro (Stevens).

Palicourea sp., Mayagüez, Vega Baja, Utuado, Ponce, Maricao, El Gigante (Stevens).

Psychotria bertiana, El Alto de la Bandera (Stevens).

Psychotria grandis, Mayagüez (Stevens).

Psychotria pubescens, Arecibo-Lares Road, Vega Baja (Stevens).

Psychotria sp., Quebradillas (Stevens).

MELIOLA GLABROIDES Stevens.

On *Nectandra patens*, Mayagüez, Maricao (Stevens).

Piper aduncum, Indiera Fría, El Alto de la Bandera, Las Marías, Dos Bocas, Vega Baja, Mayagüez, Añasco, Maricao, Arecibo-Lares Road, Aibonito, Lares, Martín Peña, Trujillo Alto, Utuado (Stevens) (19).

Piper marginatum, Espinosa.

Sauvagesia erecta, El Alto de la Bandera, Las Marías, Maricao (Stevens).

Simaruba tulæ, Mayagüez, El Gigante (Stevens).

Solanum persicifolium, Quebradillas, (Stevens).

Solanum rugosum, Las Marías (Stevens).

Valerianodes cayennensis, Río Piedras; Sabana Llana, Trujillo Alto (Stevens).

MELIOLA GLABROIDES var. SCHLEGELLÆ Stevens.

On *Schlegelia* sp., El Alto de la Bandera (Stevens).

MELIOLA GUAREÆ Speg.

On *Guarea trichilioides*, Las Marías, Dos Bocas, Monte de Oro, Adjuntas, Jájome Alto, Mayagüez (Stevens).

MELIOLA GUAREICOLA Stevens.

On *Guarea trichilioides*, Las Marías, Mayagüez, Adjuntas, Monte de Oro, Dos Bocas (Stevens).

MELIOLA GUIGNARDI Gaill.

On *Turpinia panniculata*, Maricao (Stevens).

MELIOLA GYMНАNTHICOLA Stevens.

On *Gymnanthes lucida*, Guayanilla (Stevens).

MELIOLA HELLERI Earle.

On *Eugenia monticola*, Manatí (Stevens).

Eugenia Stahlii, Luquillo, El Alto de la Bandera (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Myrcia splendens, Jájome Alto (Stevens).

Unknown woody plant (Heller) (21).

MELIOLA HESSII Stevens.

On *Paullinia pinnata*, Sabana Llana, Mayagüez (Stevens).

MELIOLA HYPTIDICOLA Stevens.

On *Hyptis atrorubens*, Río Piedras.

Hyptis capitata, El Gigante (Stevens).

Hyptis lantanifolia, Las Marías (Stevens).

Hyptis pectinata, Dos Bocas, Maricao (Stevens).

Hyptis sp., Monte de Oro (Stevens).

MELIOLA IPOMŒEÆ Earle.

On *Ipomoea batatas*, Río Piedras, Garrochales.

Ipomoea cathartica, Las Marías, Vega Baja (Stevens).

Ipomoea tiliacea, Añasco, Mayagüez (Stevens).

Ipomoea spp., El Miradero, Dos Bocas, Rosario, Maricao (Stevens); Mayagüez (Heller) (19, 90).

MELIOLA IRREGULARIS Stevens.

On *Hygrophila brasiliensis*, Río Piedras (Stevens).

MELIOLA JATROPHÆ Stevens.

On *Jatropha hernandifolia*, Río Tanama, Dos Bocas (Stevens).

MELIOLA LAGUNCULARIÆ Earle.

On *Conocarpus erecta*, Mayagüez (Stevens) (82).

Laguncularia racemosa, Martín Peña, Mayagüez, Joyuda (Stevens); Cataño (Heller) (19).

MELIOLA LONGIPODA Gaill.

On *Anona montana*, Mayagüez (Stevens).

Cordia corymbosa, Río Piedras.

Cordia nitida, Martín Peña (Stevens).

Cordia sp., Mayagüez (Stevens).

Tournefortia hirsutissima, Martín Peña, Sabana Llana; Arecibo, Dos Bocas, Quebradillas (Stevens).

MELIOLA LUCUMÆ Stevens.

On *Lucuma multiflora*, Las Marías, Guayanilla (Stevens).

MELIOLA MAGNOLIÆ Stevens.

On *Magnolia portoricensis*, Monte Alegrillo (Stevens).

MELIOLA MANCA Ell. & Mart.

On *Myrica cerifera*, Río Piedras; Manatí (Stevens); Cataño (Heller).

MELICOLA MANGIFERÆ Earle.

On *Mangifera indica*, Bayamón, Camuy; Mayagüez, Vega Baja, Manatí, Luquillo Forest, El Gigante (Stevens); Río Piedras (Heller) (21, 82).

MELIOLA MARICÆNSIS Stevens.

On *Ilex nitida*, Maricao (Stevens).

MELIOLA MAYAGUESIANA Stevens.

On *Palicourea crocea*, Río Piedras; Las Marías. Lajas (Stevens).

Palicourea domingensis, Las Piedras (Stevens).

Palicourea riparia, Mayagüez (Stevens).

Palicourea sp., Mayagüez (Stevens).

MELIOLA MAYEPEÆ Stevens.

On *Maycea domingensis*, Mayagüez. El Alto de la Bandera (Stevens).

MELIOLA MAYEPEICOLA Stevens.

On *Maycea domingensis*, Mayagüez. Maricao (Stevens).

MELIOLA MELASTOMACEARUM Speg.

On *Clidemia hirta*, Maricao, Mayagüez, Las Marías. Dos Bocas (Stevens).

Clidemia strigillosa, Trujillo Alto. Lajas (Stevens).

Heterotrichum cymosum, Utuado (Stevens) (82).

Miconia impetiolaris, Mayagüez (W. & O.).

Miconia laevigata, Río Piedras, Camuy: Dos Bocas, Arecibo (Stevens).

Miconia racemosa, Río Piedras: Mayagüez. Lajas (Stevens).

MELIOLA MERRILLII Syd.

On *Cissus sicyoides*, Mayagüez. Camuy, Río Piedras; Lares, San Germán, Utuado. Villa Alba, El Gigante. Dos Bocas.

Añasco, Aguada, Yauco. Manatí, Río Tanamá (Stevens).

MELIOLA MICONIÆ Stevens.

On *Miconia prasina*, Las Piedras. Las Marías (Stevens).

MELIOLA MICONIEICOLA Stevens.

On *Miconia Sintenisii*, El Alto de la Bandera (Stevens).

MELIOLA MOLLERIANA Wint.

On *Sida urens*, Río Piedras. Quebradillas: Aguada. Mayagüez. San Germán, Añasco, Yauco. Cataño, Santana. Dos Bocas. Arecibo-Lares, Las Marías, Rosario. El Miradero (Stevens).

Varronia sp., Las Marías, El Miradero, Mayagüez, El Alto de la Bandera (Stevens).

MELIOLA MONENSIS Stevens.

On *Amyris elemifera*, Mona Island, Guayanilla (Stevens).

MELIOLA MYRSINACEARUM Stevens.

On *Ardisia guadulupensis*, Mayagüez (Stevens).

Myrsinaceæ undet., Maricao (Stevens).

MELIOLA NIGRA Stevens.

On *Laguncularia racemosa*, Guanajibo, Joyuda (Stevens).

MELIOLA OCOTEÆ Stevens.

On *Ocotea leucoxylon*, Jájome Alto (Stevens); Maricao (W. & O.).

MELIOLA OCOTEICOLA Stevens.

On *Chrysophyllum*, Monte Allegriño (Stevens).

Ocotea leucoxylon, Mayagüez, Monte Allegriño (Stevens).

MELIOLA PANICI Earle.

On *Andropogon bicornis*, Las Marías, Vega Baja (Stevens).

Andropogon leucostachyus, El Alto de la Bandera (Stevens).

Chloris petraea, Mayagüez (Stevens).

Ichnanthus pallens, Maricao, Monte de Oro, Mayagüez (Stevens); El Yunque (W. & O.).

Lasiacis divaricata, Río Piedras; Arecibo, Manatí, Vega Baja, Vega Alta (Stevens).

Lasiacis Sloanei (*Panicum latifolium*), Río Piedras; Santurce (Heller) (19).

Lasiacis ruscifolia (*L. compacta*), Utuado (Stevens).

Lasiacis sorghoidea (*L. swartziana*), Añasco, Las Marías (Stevens).

Olyra latifolia, El Miradero, Mayagüez, Maricao, San Germán, Arecibo (Stevens).

Oplismenus setarius, Maricao (Stevens).

Panicum glutinosum, Maricao, Monte de Oro, Utuado, El Alto de la Bandera, Ponce, El Gigante, Las Marías (Stevens).

Paspalum secans, Maricao (Stevens).

MELIOLA PARATHESICOLA Stevens.

On *Parathesis serrulata*, Las Marías, Maricao, Arecibo-Lares (Stevens).

MELIOLA PAUCIPES Stevens.

On *Piper blattarum*, Mayagüez (Stevens).

MELIOLA PAULLINÆ Stevens.

On *Casearia aculeata*, Lajas (Stevens).

Casearia arborea, Monte de Oro (Stevens).

Casearia guianensis, Río Piedras.

Casearia ramiflora, Martín Peña, Barceloneta, Manatí, Vega Baja, Santana, San Germán (Stevens).

Casearia sylvestris, Río Piedras; Mayagüez, Miradero, Arecibo-Lares, San Germán (Stevens).

Casearia sp., Martín Peña, Espinosa; Dos Bocas, Mayagüez (Stevens).

MELIOLA PAULLINIE Stevens—Continued.

On *Mammea americana*, Maricao, Las Marías (Stevens).

Mammea americana, Maricao, Las Marías (Stevens).

Paullinia pinnata, Río Piedras; Mayagüez, Río Arecibo, Vega Baja, El Alto de la Bandera, Barros (Stevens).

✓MELIOLA PERSEÆ Stevens.

On *Persea gratissima*, Las Marías (Stevens).

MELIOLA PHILODENDRI Stevens.

On *Philodendron krebsii*, Arecibo-Lares, Jayuya, Ponce, Jájome Alto, Maricao, El Alto de la Bandera (Stevens).

MELIOLA PILOCARPI Stevens.

On *Pilocarpus racemosus*, Mayagüez (Stevens).

MELIOLA PIPERIS Earle.

On *Piper aduncum*, Río Piedras; Dos Bocas, Las Marías, Maricao, Monte de Oro (Stevens); Mayagüez (Heller) (19).

MELIOLA PRÆTERVISA Gaill.

On *Coccoloba pyrifolia*, Mayagüez, Jájome Alto (Stevens).

Coccoloba sintenisii, Mayagüez (Stevens).

Coccoloba sp., Martín Peña; Jájome Alto (Stevens).

Cupania americana, Manatí; Mayagüez (Stevens).

MELIOLA PSIDIÆ Fr.

On *Psidium guayaba*, Bayamón, Río Piedras; Yauco, San Germán, Mayagüez, San Sebastián, Vega Alta, Jájome Alto, Arecibo-Lares, Dos Bocas, Vega Baja, Sabana Llana, Maricao, Utuado, Jayuya (Stevens) (19).

MELIOLA PSYCHOTRIÆ Earle.

On *Borreria lœvis*, El Alto de la Bandera, Dos Bocas (Stevens).

Borreria ocimoides (Stevens).

Chiococca alba, Río Piedras; Mayagüez, Río Tanamá (Stevens).

Erithalis fruticosa, Quebradillas, Mona Island, Guayanilla (Stevens) (21).

Gonzalagunia spicata, Sabana Llana, El Miradero, Mayagüez, Vega Baja, Río Arecibo (Stevens).

Guettarda ovalifolia, Maricao (Stevens).

Guettarda scabra, Martín Peña.

Mitracarpus portoricensis, Río Piedras.

Psychotria sp., Martín Peña.

Randia aculeata, Martín Peña, Río Piedras; Quebradillas, Florida Adentro, Hormigueros, Monacillo (Stevens).

MELIOLA PTERIDICOLA Stevens.

On *Adiantum latifolium*, Las Marias, Mayaguez (Stevens).

Adiantum sp., Mayaguez (Stevens).

Aneimia adiantifolia, Rio Tanamá, Quebradillas, Dos Bocas (Stevens).

Aneimia spp., Dos Bocas (Stevens).

✓ MELIOLA PUIGGARII Speg.

On *Rubus* sp., El Alto de la Bandera, Maricao (Stevens).

MELIOLA QUADRISPINA Rac.

On *Ipomoea cathartica*, Las Marias (Stevens).

MELIOLA RECTANGULARIS Stevens.

On *Banisteria laurifolia*, Jayuya, Maricao, Utuado, Hormigueros, Mayaguez, Martín Peña. (Stevens).

Coccoloba laurifolia, Arecibo-Lares (Stevens).

MELIOLA RUDOLPHÆ Stevens.

On *Rudolphia volubilis*, Monte Alegrillo, Maricao, Luquillo Forest, El Alto de la Bandera, Aibonito (Stevens).

MELIOLA SEPULTA Pat.

On *Avicennia nitida*, Martín Peña.

MELIOLA SERJANLE Stevens.

On *Serjania polypylla*, Vega Baja, Florida Adentro, Arecibo-Lares, Cataño (Stevens).

✓ MELIOLA SMILACIS Stevens.

On *Smilax coriacea*, Manatí (Stevens).

Smilax sp., Algarrobo; Jájome Alto (Stevens).

MELIOLA SOLANI Stevens.

On *Solanum jamaicensis*, Monte de Oro (Stevens).

MELIOLA STENOTAPHRI Stevens.

On *Paspalum plicatum*, Río Piedras.

Stenotaphrum secundatum, Río Piedras; Manatí, Río Tanamá, Dos Bocas, Arecibo (Stevens).

MELIOLA TABERNÆMONTANÆ Speg.

On *Plumiera Krugii*, Maricao (Stevens).

Rauwolfia nitida, Martín Peña (Stevens).

Rauwolfia tetraphylla, Martín Peña.

Tabernaemontana oppositifolia, Mayaguez, Hormigueros (Stevens).

MELIOLA TABERNÆMONTANÆ var. FORSTERONIÆ Stevens.

On *Forsteronia corymbosa*, Utuado (Stevens).

✓ **MELIOLA TECOMÆ** Stevens.

On *Tecoma pentaphylla*, Río Piedras: Martín Peña, Mayagüez.
 Las Marías, Maricao (Stevens).
Tecoma sp., El Miradero, Las Marías, Mayagüez. Maricao.
 Quebradillas, Vega Baja, Arecibo-Lares (Stevens).

MELIOLA TENUISSIMA Stevens.

On *Gouania lupuloides*, Camuy: Yauco, Villa Alba (Stevens).

MELIOLA THOUINÆ Earle.

On *Allophylus crassincervis*, Quebradillas (Stevens).

Krugiodendron ferreum, Guayanilla, Río Tanamá. Quebradillas, Coamo (Stevens).

Thouinia striata, Vega Baja, Río Arecibo (Stevens) (21).

Winterrana canella, Guayanilla, Mona Island (Stevens).

MELIOLA TORTUOSA Wint.

On *Piper medium*, Vega Baja (Stevens).

Piper peltatum, Río Piedras: Ponce (Heller): Mayagüez (W. & O.).

Piper umbellatum, Espinosa: Utuado, Indiera Fría, Mayagüez. Lares, Añasco, Monte Alegrillo, El Gigante, Jájome Alto, Dos Bocas, Las Marías, Río Tanamá, Maricao, Río Arecibo (Stevens) (21).

MELIOLA TORULOIDEA Stevens.

On *Cassia quinquadriangulata*, Jájome Alto, Maricao, Aibonito (Stevens).

Inga laurina, Las Marías (Stevens): Maricao (W. & O.).

Inga vera, Mayagüez (W. & O.).

MELIOLA TRILOBA Wint.

On *Pilea parietaria*, Arecibo-Lares, Dos Bocas, Río Arecibo (Stevens).

✓ **MELIOLA TRIUMFETTÆ** Stevens.

On *Hibiscus tiliaceus*, Arecibo-Lares, Maricao, Dos Boeas (Stevens).

Triumfetta semitriloba, Utuado, Indiera Fría (Stevens).

Triumfetta sp., Espinosa.

MELIOLA TUBERCULATA Stevens.

On undet. host, Vega Baja (Stevens).

MYRIOSTICTA PORTORICENSIS Pat.

On *Vigna repens*. Coll. N. Y. Bot. Garden. Probably *Dimerium grammodes*.

PARODIELLA PERISPOROIDES (B. & C.) Speg.

See *Dimerium grammodes*.

PERISPORINA LANTANÆ Stevens.

On *Lantana camara*, Lares (Stevens) (82).

PERISPORIOPSIS WRIGHTII (B. & C.) Stevens.

On *Opuntia* sp., Mayagüez, Ponce (Stevens) (82).

✓ PERISPORIUM BROMELIÆ Stevens.

On *Bromelia pinguin*, Río Piedras, Naguabo, Camuy; Mayagüez, Manatí, Utuado, Santa Ana, Cataño, Vega Baja, Florida Adentro, Lajas, Hormigueros, Coamo, Maricao, Añasco (Stevens) (82).

PERISPORIUM PORTORICENSIS Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens) (82).

PERISPORIUM TRUNCATUM Stevens.

On *Inga laurina*, Maricao, Mayagüez, El Alto de la Bandera, Coamo (Stevens).

Inga vera, Maricao (Stevens) (82).

PSEUDOMELIOLA (?) COLLAPSA Earle.

On *Meliola torulosa* on *Piper peltatum*.Meliola sp., on *Hyptis capitatum* (21).

MICROTHYRIACEÆ.

ASTERINA CORIACELLA Speg. (?).

On *Cestrum laurifolium*. Coll. N. Y. Bot. Garden.

ASTERINA (ASTERELLA) FUMAGINA Dear. & Barth.

On *Lasiacis Sloanei* (*Panicum latifolium*) (?), Maricao (Stevens) (18). This is apparently the same as *Dimeriella olyrae* Stevens.

ASTERINA SIDÆ Earle.

On *Sida carpinifolia*, Porto Rico (Heller) (21).

ASTERINA TRILOBA Earle.

On *Croton discolor*, Ponce (Heller) (21).

MICROPELTIS ÆRUGINESCENS Rehm.

On *Rourea glabra*, Río Piedras (W. & O.).

MICROPELTIS LAGUNCULARIÆ Wint.

On *Laguncularia racemosa*, Mayagüez (Heller) (19).

MICROPELTIS LONGISPORA Earle.

On *Coffea arabica*, Porto Rico (Heller) (21).

MICROPELTIS MANTHÆ (?).

On *Adiantum latifolium*, Mayagüez (W. & O.).

MICROTHYRIUM URBANI Bres.

On *Shaefferia frutescens*, Cabo Rojo (Sintenis) (76).

NECTRIACEÆ.

BORINQUENIA MICONIÆ Stevens.

On *Miconia lavigata*, Arecibo, Utuado (Stevens) (82).

CALONECTRIA ERUBESCENS (Roberge) Sacc.

On dead leaves, Naranjito, Vega Baja, Aibonito (Fink).

CREONECTRIA BAINII (Massee) Seaver.

On pods of *Theobroma cacao*, Mayagüez (Fawcett) (27).

CREONECTRIA BALANSÆ (Speg.) Seaver.

On dead wood, Río Piedras.

CREONECTRIA GRAMMICOSPORA (Ferd. & Winge) Seaver.

On dead bark of *Cajanus indicus*, Río Piedras.

CREONECTRIA OCHROLEUCA (Schw.) Seaver.

(*Nectria ochroleuca* Schw.)

On dead bark, Santana (Stevens) (82).

DEXTERIA PULCHELLA Stevens.

On *Paulinia pinnata*, Mayagüez (Stevens) (82).

GIBERELLA PULICARIS (Fries) Sacc.

On dead cane stalks, grass culms, Río Piedras, Carolina, Las Monjas, Guaynabo (48).

HYALOSPHÆRA MICONIÆ Stevens.

On *Miconia lavigata*, Arecibo, Utuado, Maricao, Aguas Buenas, Ponce, Yabueoa (Stevens) (82).

HYPONECTRIA PHASEOLI Stevens. In mss.

On *Vigna vexillata*, Porto Rico (Stevens).

MEGALONECTRIA PSEUDOTRICHIA (Schw.) Speg.

On dead wood and bark, particularly of *Cajanus indicus*, Río Piedras, Pueblo Viejo, Moca (72, 90).

NECTRIA EPISPHÆRIA (Tode) Fries.

On dead wood, citrus twigs, and branches, often following *Corticium*, and on fruiting bodies of *Ustilina vulgaris*, Martín Peña, Bayamón, Río Piedras (89, 96).

NECTRIA FLAVOCILIATA Seaver.

On dead wood and dead cane stalks, Río Piedras, Vega Baja (48).

NECTRIA LAURENTIANA Marschal.

On dead and dying cane stalks, at times a wound parasite, Río Piedras, Carolina, Loíza, Las Monjas (48, 105).

NECTRIA RHYTIDOSPORA Pat.

On dead bark. Coll. N. Y. Bot. Garden.

NECTRIA SUFFULTA Berk. & Curt.

On stump of *Musa*, Río Piedras.

PLEONECTRIA MEGALONECTRIA Speg.

On dead and dying bark of *Cajanus indicus*, Espinosa.

SCOЛЕCONECTRIA COCCICOLA (Ellis. & Ev.) Seaver.

(*Ophionectria coccicola* Ellis. & Ev.)

On various scale insects, on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Espinosa, Garrochales, Mayagüez (46, 96, 100).

SPHÄRODERMATELLA HELLERI (Earle) Seaver.

(*Melanospora* (?) *Helleri* Earle.)

On bark, Santurce (Heller) (19, 72, 73).

SPHÄROSTILBE COCCOPHILA (Desmaz.) Tul.

On various scale insects on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Vega Baja, Manatí, Espinosa, Garrochales, Mayagüez. Wide spread and always present in abundance (20, 46, 96, 100).

HYPOCREACEÆ.

BALANSIA HYPOXYLON (Peck) Atk.

(*Ephelis mexicana* Fries.)

(*Hypocrella hypoxylon* [Peck.] Sacc.)

On living stems of *Panicum tricanthum*, Río Piedras. Also reported from the Sintenis collection (76), on inflorescences of Gramineæ.

CHROMOCREA GELATINOSA (Tode) Seaver.

On dead cane stalks and debris, Río Piedras, Carolina (48).

CHROMOCREOPSIS STRIISPORA Stevenson.

On dead cane stalks, Gurabo (48).

CORDYCEPS BARBERI.

See *Isaria Barberi*.

CORDYCEPS DIPTERYGENA Berk. & Br.

On Drosophilid flies, particularly *Chrysomyia macellaria*, Río Piedras, Espinosa (94).

DOTHICHLÆ ARISTIDÆ Atkinson.

On *Aristida portoricensis*, Mayagüez (W. & O.). This fungus reported by Stevens (82) as *Balansia discoidea*.

DOTHICHLOE ATRAMENTOSA (B. & C.) Atk.

On *Andropogon leucostachyus*, Las Marías (Stevens) (82).

Chloris petraea, Boquerón (W. & O.).

DOTHICHLOE NIGRICANS (Speg.) Seaver.

(*Ephichloë nigricans* Speg.)

On *Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.). The same fungus reported by Stevens (82) as *Dothichloë aristida*.

GLAZIELLA AURANTIACA (Berk. & Curt.) Sacc.

On dead wood, Mameyes.

HYPOCREA RUFa (Pers.) Fries.

On dead cane trash and dead wood, Río Piedras, Naguabo (48).

HYPOCRELLA TAMONEÆ Earle.

On living leaves of *Tamonea* sp. Collections N. Y. Bot. Garden (73, 74).

PODOSTROMA BREVIPES (Mont.) Seaver.

On dead wood, El Yunque.

SPERMÖEDIA STEVENSII Seaver.

(*Claviceps paspali* S. & H.)

On *Paspalum plicatulum*, Rosario, Ponce, Añasco, Cataño, Coamo, Mayagüez (Stevens) (82).

STILBOCREA HYPOCREOIDES (Kalchbr. & Cooke) Seaver.

On dead wood, Río Piedras, Espinosa, Bayamón.

USTILAGINOIDEA USAMBARENSIS P. Henn.

On *Panicum laxum*, Monte de Oro, El Alto de la Bandera (Stevens) (82).

DOTHIDIACEÆ.

AUERSWALDIA PALMICOLA Speg.

On *Aerista palmicola*, Adjuntas, El Gigante (Stevens) (38, 81).

MYRIOGENOSPORA BRESADOLEANA P. Henn.

On *Andropogon bicornis*, Río Piedras.

Axonopus compressus, Mayagüez (W. & O.).

Paspalum conjugatum, Sierra de Naguabo, Pueblo Viejo (81).

PHYLLOCHORA ANDROPOGONIS (Schw.) Karst.¹

On *Paspalum millegrana*, Naguabo (Stevens) (34).

¹ Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA CASSIÆ P. Henn.

On *Cassia fistula*, Río Piedras, Quebradillas.

PHYLLACHORA CORNUOSPORA Atk.

On *Paspalum virgatum*, Río Piedras.

PHYLLACHORA CYPERI Rehm.

On *Cyperus giganteus*, Mayagüez (W. & O.)

PHYLLACHORA GALACTIÆ Earle.

On *Galactia striata*, Río Piedras, Espinosa, Camuy.

Galactia tenuiflora, Coamo Springs (Cooke & Collins).

PHYLLACHORA GRAMINIS (Pers.) Fuckel.¹

On *Andropogon brevifolius*, Río Piedras.

Arthrostylidium sarmentosum, Utuado (Stevens) (82).

Lasiacis sorghoidea, Jájome Alto (Stevens).

Panicum sp., Maricao (Stevens).

Paspalum conjugatum, Vega Baja, El Alto de la Bandera (Stevens) (82).

Paspalum virgatum, Utuado (Stevens) (82).

Paspalum sp., Río Piedras; Sabana Grande (Stevens) (34).

Valota insularis, Quebradillas, Vega Baja, Santa Ana, Coamo (Stevens) (82).

PHYLLACHORA GRATISSIMA Rehm.

On *Persea americana*, Jayuya (Stevens) (60).

PHYLLACHORA INCLUSA (B. & C.) Sacc.

On *Jacquinia Berterii*, Ponce (Heller).

PHYLLACHORA LUTEO-MACULATA (Schw.) Orton.

On *Andropogon leucostachys*, Río Piedras.

PHYLLACHORA MAYDIS Maubl.

On *Zea mays*, Arecibo, Vega Baja, Río Piedras (16, 17, 18, 90).

Given by Stevens and Dalby as *P. graminis*.

PHYLLACHORA MINUTA P. Henn.

On *Paritium tiliaceum*, Pueblo Viejo; Cataño (W. & O.).

PHYLLACHORA NITENS Garman.

On *Schlegelia brachyantha*, Maricao, Ponce, Monte Allegreillo, Río Grande, Preston's Ranch (Stevens) (34).

PHYLLACHORA PERFORANS (Rehm.) Sacc.

On *Securidaca virgata*, Río Piedras; Maricao, Rosario, Mayagüez (Stevens) (34, 82). Host reported erroneously by Garman as *Abrus precatorius*.

¹ Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

PHYLLACHORA PERIBEBUYENSIS Speg.

On *Heterotrichum cymosum*, Jayuya (Stevens); El Yunque (W. & O.).

Miconia laevigata, Río Piedras, Maricao, Consumo, Las Marías (Stevens).

Miconia Sintensis, Monte Alegre (Stevens).

Miconia sp., Río Piedras, Espinosa; Villa Alba, Maricao, Rosario (Stevens).

Tetrazygia elaeagnoides, Vega Baja, Espinosa; Barceloneta (W. & O.).

Tetrazygia sp., Santana (Stevens) (34).

PHYLLACHORA PUNCTA (Schw.) Orton.

On *Opilesmenus hirtellus*, Espinosa.

PHYLLACHORA RENEALMÆ Rehm.

On *Alpinia antillarum*, Maricao, Monte Alegre, Utuado, Já-jome Alto, El Yunque (Stevens) (34).

PHYLLACHORA SCLERÆ Rehm.

On *Seleria pterota*, Sierra de Naguabo, Espinosa, Río Piedras; Sabana Llana (Stevens) (82).

PHYLLACHORA SPHÆROSPERMA Winter.

On *Cenchrus echinatus*, Loíza, Campo Alegre; Vega Baja (Stevens) (34).

Cenchrus myosurioides, Mona Island (Stevens) (34).

SCIRRHIA LOPHODERMIOIDES Ellis & Ev.

On *Saccharum officinarum*, Río Piedras.

FIMETARIACEÆ.

SPORORMIA MINIMA Auersw.

On cow manure, Río Piedras.

SPHÆRIACEÆ.

BERTIA MORIFORMIS (Tode) De Not.

On dead wood, El Yunque (Heller).

HERPOTRICHIA ALBIDOSTOMA (Peck.) Sacc.

On rotten wood, Río Piedras.

HERPOTRICHIA DIFFUSA (Schw.) E. & E.

On coconut husks, Espinosa.

LASIOSPHÆRIA PEZIZULA (B. & C.) Sacc.

On dead bark, Dorado.

LIZONIA JACQUINÆ Bri. & Har.

On *Jacquinia barbasco* (*J. armillaris*) (Sintenis) (76).

MELANOMMA NITIDULUM Bres.

Reported from the Sintenis collection (76).

PHÆOSPORA CACTICOLA Stevens.

On *Rhipsalis cassytha*, Cayey (Stevens) (82).

ROSELLINIA AQUILA (Fr.) d. Not.

On dead wood, Río Piedras, Bayamón, Martín Peña.

ROSELLINIA BUNODES B. & Br.

On *Coffea arabica*, Mayagüez (Brandes) (31). Also reported by Fawcett (31) as attacking *Acalypha mosaica*, *Graptophyllum pictum*, *Jambosa jambos*, *Panax plumatum*, *Petiveria alliacea*, *Miconia* sp., *Piper* sp., and *Palicourea* sp.

ROSELLINIA PARAGUAYENSIS Stark.

On dead sugar-stalk, Río Piedras (48).

ROSELLINIA PULVERACEA (Ehrh.) Fuckel.

On dead sugar-cane stalks, Río Piedras.

ROSELLINIA SUBICULATA (Schw.) Sacc.

On dead wood, El Duque, Río Piedras, Martín Peña, Fajardo, Garrochales.

ZIGNELLA ALGAPHILA Stevens. In mss.

On *Cephaeluros virescens* on *Artocarpus incisa*, Porto Rico (Stevens).

CUCURBITARIACEÆ.

NITSCHKIA NERVINCOLA Rehm.

On *Gesneria albiflora*, Maricao (Brittin); Mayagüez (Stevens) (82).

OTTHIA PANICI Stevens.

On *Panicum maximum*, Jayuya, Naguabo (Stevens) (82).

CORYNELIACEÆ.

CORYNELIA OREOPHILA (Speg.) Starb.

On *Podocarpus coriaceus*, Maricao (W. & O.). This species is reported by Dr. Stevens (82) as *Corynelia clavata* (S.) Sacc. var. *portoricensis* Stevens.

CORYNELIA PTERIDICOLA Stevens.

On *Campyloneurum* sp., Añasco (Stevens) (82).

LOPHIOSTOMATACEÆ.

PLATYSOMIUM INDURATUM Earle.

Host not known. Coll. N. Y. Bot. Garden (Underwood and Griggs).

MYCOSPHÆRELLACEÆ.

GUIGNARDIA CEPHALARIAE Aud. var. ALTERNANTHERÆ Sacc.

On *Alternanthera sessilis*, Río Piedras, Pueblo Viejo; Mayagüez, Las Marias, Utuado, Guayanilla (Stevens) (82).

GUIGNARDIA CLUSIÆ Stevens.

On *Clusia gundlachii*, Maricao (Stevens) (82).

GUIGNARDIA HELICTERES Stevens.

On *Helicteres jamaicensis*, Barceloneta (Stevens) (82).

GUIGNARDIA HETEROTRICHI Stevens.

On *Tet erotrichum cymosum*, Naguabo, Maricao, Villa Alba, Utuado (Stevens) (82).

GUIGNARDIA JUSTICÆ Stevens. In mss.

On *Justicia verticillaris*, Porto Rico (Stevens).

GUIGNARDIA PIPERICOLA Stevens.

On *Piper marginatum*, Palo Seco; Lajas, Cabo Rojo (Stevens) (82).

Piper medium, Espinosa, Camuy; Vega Baja, Aguada, Trujillo Alto, St. Ana, Florida, Río Tanamá, Manatí, Peñuelas (Stevens) (82).

GUIGNARDIA PROMINENS Earle.

On *Aegiphila martinicense*, Santurce (Heller) (19).

GUIGNARDIA RYNCHOSPORE Stevens.

On *Rynchospora cyperoides* Martín Peña (Stevens) (82).

GUIGNARDIA TETRAZYGIA Stevens. In mss.

On *Tetrazygia* sp., Porto Rico (Stevens).

MYCOSPHÆRELLA AGGREGATA Schw.

On dead wood. Coll. N. Y. Bot. Garden.

MYCOSPHÆRELLA ANTHURII Miles.

On *Anthurium acaule*, Point Cangrejos; Aguas Buenas, Monte Alegre, Yabucoa, Trujillo Alto, Rosario, Cataño, Bayamón, Cabo Rojo, Las Bocas (Stevens) (61).

MYCOSPHÆRELLA CHRYSOBALANI Miles.

On *Chrysobalanus icacao*, Río Piedras (Stevens) (61).

MYCOSPHÆRELLA CITRULLINA (C. O. Sm.) Gros.

On *Cucumis melo*, Río Piedras (94).

MYCOSPHÆRELLA CLUSIÆ Stevens.

On *Clusia rosca*, Maricao, Lajas, Mayagüez, Utuado (Stevens) (82).

MYCOSPHÆRELLA DIDYMOPANACIS Miles.

On *Didymopanax morototoni*, Río Piedras, Bayamón; Añasco, Utuado (Stevens) (61).

MYCOSPHAERELLA DUBIA Miles.

On *Solanum* sp. (?), Maricao (Stevens) (61).

MYCOSPHAERELLA FRAGARILÆ (Tul.) Lin.

On *Fragaria* sp., Río Piedras.

MYCOSPHAERELLA GUTTIFERÆ Miles.

On *Clusia gundlachii*, Maricao (Stevens) (61).

MYCOSPHAERELLA MACULIFORMIS (Pers.) Schw.

On *Inga vera*, Maricao (Stevens) (82).

MYCOSPHAERELLA MAXIMA Miles.

On unknown host, Maricao (Stevens) (61).

MYCOSPHAERELLA MAYDIS (Pass.)

On *Syntherisma sanguinale*, El Alto de la Bandera (Stevens) (82).

MYCOSPHAERELLA MUCUNÆ Stevens.

On *Mucuna pruriens*, Añasco (Stevens) (82).

✓ MYCOSPHAERELLA PALMÆ Miles.

On leaves of palms, Guánica (Stevens) (61).

MYCOSPHARELLA PERSEÆ Miles.

On *Persea americana*, Pueblo Viejo, Río Piedras, Bayamón; Maricao, San Germán, Dos Bocas (Stevens) (60, 61).

MYCOSPHARELLA TABEBULÆ Miles.

On *Tabebuia hæmantha*, Vega Baja, Mona Island (Stevens) (61).

MYCOSPHARELLA TYROLENSIS Stevens. In mss.

On *Gymnogramma sulphurea*, Porto Rico (Stevens).

SPHÆRELLA SACCHARI Speg.

On dead leaves of sugar-cane, Fajardo, Río Piedras (48, 105).

PLEOSPORACEÆ.

LEPTOSPHÆRIA SACCHARI van Breda de H.

On *Saccharum officinarum*, Juncos, Río Piedras, Arecibo, Gurabo, Quebradillas (48, 82, 94, 105).

METASPHÆRIA ABORTIVA Stevens.

On *Varronia alba*, Mayagüez, Maricao, Lares (Stevens) (82).

OPHIOBOLUS BARBATUS Pat. & Gaill.

On *Vitex* sp. (Stevens) (82).

PHYSALOSPORA ANDIRÆ Stevens.

On *Andira jamaicensis*, Sierra de Naguabo, Río Piedras; Camuy, Mayagüez, Vega Baja, San Sebastián, Maricao, Cabo Rojo, Coamo, Quebradillas, Hormigueros, San Germán, Lajas, Martín Peña, Peñuelas, Lares, El Yunque (Stevens) (82).

PHYSALOSPORA BAMBUSE (Rab.) Sacc.

On *Lasiacis sorghoidea*, El Yunque (Stevens) (82).

PHYSALOSPORA CAROPHYLLINICOLA Stevens.

On *Drymaria cordata* Jayuya (Stevens) (82).

PHYSALOSPORA LAGUNCULARIÆ Rehm.

On *Laguncularia racemosa*, Guánica, Boquerón (Stevens) (82).

PHYSALOSPORA TUCUMANENSIS Speg.

On dead sugar-cane stalks, Carolina (48).

GNOMONIACEÆ.

ANTHOSTOMELLA RHIZOMORPHÆ Stevens. In mss.

On *Rhizophora mangle*, Martín Peña.

GLOMERELLA CINGULATA (Stonem.) S. & V. S.

(*Glomerella psidii* Dela.).

(*Glaeosporium rufomaculans* [Berk.] Thüm.)

(*Glaeosporium vanillae* [Berk.] Cke.)

On *Citrus decumana*, (dead twigs), Río Piedras.

Psidium guajava, Mayagüez (Sheldon). Reported in Bull. 104, West Va. Agri. Exp. Station.

Vanilla planifolia, Mayagüez (Thomas).

LINOSPORA TRICHOSTIGMÆ Stevens. In mss.

On *Trichostigma octandra*, Porto Rico (Stevens).

TRABUTIA PORTORICENSIS Stevens. In mss.

On *Coccolobis nivea*, Porto Rico (Stevens).

TRABUTIELLA CORDIÆ Stevens. In mss.

On *Cordia collococca*, Porto Rico (Stevens).

VALSACEÆ.

VALSA SACCHARI Stevenson. (In ed.)

On dead sugar-cane stalks, Barceloneta.

MELANCONIDACEÆ.

MELANCONIS SACCHARI Mass.

On *Saccharum officinarum*, Mayagüez (Stevens) (82). Undoubtedly a mistake for *Melanconium sacchari* Mass.

VALSARIA SUBTROPICA Speg.

On dead cane-stalk. Río Piedras (82).

DIATRYPACEÆ.

DIATRYPE STIGMA (Hoffm.) Fr.

On dead wood. Martín Peña.

MELOGRAMMATACEÆ.

ENDOTHIA LONGIROSTRIS Earle.

On dead bark, Río Piedras, Sierra de Naguabo; Santurce (Heller) (82). Cultural and comparative studies reported by Shear *et al.*, in Bul. 380, U. S. Dept. of Agri.

ENDOTHIA PARRYI (Farl.) Cooke.

On *Agave rigidula* var. *sissalana*, Maricao (Stevens) (82).

Furcraea tuberosa (*Fourcroya hexapetala*), Maricao, Monte Allegrillo, Trujillo Alto (Stevens) (82).

MYRMÆCIUM CANNÆ Dearn. & Barth.

On *Canna indica*, Cabo Rojo (Stevens) (18).

MYRMÆCIUM RUBICOSUM (Tul.) Nits.

On dead bark, Naguabo.

XYLARIACEÆ.

DALDINIA CONCENTRICA (Bolt.) E. & E.

On dead wood, Garrochales, Palo Seco, Pueblo Viejo, Martín Peña, Espinosa (96). Reported from Humacao (Schwacke) (50) as *Sphaeria concentrica* Bolt.

HYPPOXYLON ANNULATUM Mont.

On dead wood, Palo Seco.

HYPPOXYLON FUSCOPURPUREA Berk.

On dead citrus branches, Campo Alegre, Bayamón (96).

HYPPOXYLON PERFORATUM (Schw.) Fr.

On dead bamboo, Río Piedras.

HYPPOXYLON RUBGINOSUM Fr.

On dead wood, Río Piedras, Martín Peña.

KRETSCHMARA CENOPUS (Mont.) Karsten.

On dead wood, El Duque, Aibonito. Río Piedras.

KRETSCHMARA RUGOSA Earle.

On dead wood, Sierra de Naguabo, El Yunque.

NUMMULARIA BULLIARDII Tul.

On dead wood, or occasionally as a wound parasite of *Ficus nitida* and other trees, Río Piedras, Sierra de Naguabo, Martín Peña, El Yunque, Comerío (89).

NUMMULARIA GLYCYRRHIZA B. & C.

On dead wood. Reported from the Sintenis collection (76).

Probably is *N. Bulliardii*.

NUMMULARIA REPANDA Nitsch.

On dead wood, El Yunque.

PORONIA OEDIPUS Mont.

On manure, Río Piedras, Cortada.

USTILINA VULGARIS Tul.

On dead wood and on the larger roots and crowns of dying grapefruit trees (*Citrus decumana*), Río Piedras, Martín Peña, Palo Seco (89, 96). What is probably the same species is reported from the Schwanecke collection (50) as *Hypoxyylon vulgare* Link.

XYLARIA APICULATA Cooke.

(*Xylaria arbuscula* Sacc.)

On dead wood. Río Piedras, Martín Peña, Espinosa, Bayamón (48, 54).

XYLARIA ARISTATA Mont.

On dead wood. Río Piedras.

XYLARIA AXIFERA Mont.

On dead wood, Río Piedras, El Yunque.

XYLARIA BERKELEYI Mont.

On dead wood, Sierra de Naguabo, El Yunque.

XYLARIA CLAVICULARIS Klotzsch.

On rotten wood, Naguabo. Reported from the Schwanecke collection (50), but nothing more is known about it.

XYLARIA CUBENSIS Mont.

On dead wood, Mameyes, Sierra de Naguabo. *Xylaria involuta* of the Sintenis collection (76) is referred (Lloyd) to this species.

XYLARIA EUGLOSSA Fries.

On dead wood, Río Piedras.

XYLARIA FIMBRIATA Lloyd.

On dead wood and soil, Río Piedras, Bayamón (55).

XYLARIA MULTIPLEX Fr.

On old pods of *Hymenaea courbaril*, Río Piedras.

XYLARIA OBOVATA Berk.

On dead wood, El Yunque.

XYLARIA OBTUSSISSIMA Berk.

Reported from the Sintenis collection (76).

XYLARIA PARTITA Lloyd.

On dead wood, Río Piedras (54).

XYLARIA POLYMORPHA (Pers.) Grev. (?).

On dead wood, Mayagüez (Stevens) (82).

XYLARIA PORTORICENSE Klotzsch.

Reported from both the Schwancke and Sintenis collections (in the latter as *forma minor*), but nothing further is known about the species (50, 76).

XYLARIA SCHWEINITZII Berk.

On dead wood, Aibonito, Río Piedras.

XYLARIA SCOPIFORMIS Mont.

On dead wood, Río Piedras, Martín Peña; Utuado (Sintenis) (76). A specimen from Cabo Rojo reported by Stevens (82) as *X. hypoxylon* (L.) Grev. belongs here (54).

HYSTERIACEÆ.**LEMBOSIA AGAVES** Earle.

On *Agave* sp., Cabo Rojo (Heller) (18).

LEMBOSIA COCCOLOBÆ Earle.

On *Coccoloba uvifera*, Cangrejos. First reported from the Heller collection (21).

LEMBOSIA DIFFUSA Wint.

On *Miconia* sp. Coll. N. Y. Bot. Garden (Heller).

TRIBLIDIUM RUFULUM Spreng.

On dead sticks, Martín Peña, Pueblo Viejo, Río Piedras, Espinosa, Garrochales, Carolina, Bayamón, Campo Alegre, El Duque (96).

PEZIZACEÆ.**COOKEINA SULCIPES** (Berk.) O. Kuntze.

On dead and rotten wood, Río Piedras, Mameyes.

COOKEINA TETRASPORA Seaver.

On palm leaves, El Yunque.

COOKEINA TRICHOLOMA (Mont.) O. Kuntze.

On dead wood, Río Piedras.

LACHNEA CUBENSIS (B. & C.) Sacc.

On dead sugar-cane stalks and debris, Río Piedras (48).

PHILLIPSIA DOMINGENSIS Berk.

On dead wood, Río Piedras, Mameyes, Martín Peña.

ASCOBOLACEÆ.**ASCOBOLUS MAGNIFICUS** Dodge.

On cow manure, Río Piedras.

ASCOBOLUS STERCORARIUS (Bull.) Rehm.

Fimicole. Col. N. Y. Bot. Garden.

ASCODESMIS PORCINA Seaver.

 Fimicole, Mayagüez (Fawcett) (75).

ASCOPHANUS CARNEUS (P.) Boud.

 On debris. Coll. N. Y. Bot. Garden.

ASCOPHANUS GRANULATUS (Bull.) Speg.

 On debris, Aibonito, Mayagüez, El Yunque (Fink)

ASCOPHANUS TESTACEUS (Mong.) Phil.

 On rotting leather, Bayamón.

SACCOLOBUS KERVERNI (Crow.) Boud.

 Coll. N. Y. Bot. Garden.

SACCOLOBUS PORTORICENSIS Seaver.

 Coll. N. Y. Bot. Garden.

HELOTIACEÆ.

HELOTIUM CITRINUM (Hedw.) Fr.

 On dead wood. Coll. N. Y. Bot. Garden.

MOLLISIACEÆ.

TRICHOBELONIUM ALBOSUCCINEUM Rehm.

 On dead leaves. Coll. N. Y. Bot. Garden.

PATELLARIACEÆ.

KARSCHIA LIGNYOTA (Fr.) Sacc.

 On dead wood, Manatí (Fink).

LECANIDION CYANUM (Cooke) Sacc.

 On dead citrus twigs, Campo Alegre (96).

DERMATEACEÆ.

MIDOTIS HETEROMERA Mont.

 On wood, Mt. Cienege (Sintenis) (76).

ORBILIA CHRYSOCOMA (Bull.) Sacc.

 On dead wood. Coll. N. Y. Bot. Garden.

STICTIDACEÆ.

STICTIS FOLICOLA B. & C.

 On dead leaves, Río Piedras.

STICTIS RADIATA Pers.

 On dead citrus twigs, Campo Alegre, Sabana Llana, Espinosa, Río Piedras (96).

BASIDIOMYCETES.

USTILAGINACEÆ.

CINTRACTIA AXICOLA (Berk.) Cornu.

On *Fimbristylis* sp., Quebradillas, Bayamón, Mayagüez (Stevens) (82).

Fimbristylis diphylla, Dorado, Río Piedras; El Yunque, San Juan, Quebradillas, Lares (Stevens) (82).

Fimbristylis ferruginea, Santurce (Stevens) (4).

CINTRACTIA AXICOLA MINOR Clinton.

On *Cyperus sphacelatus*, Campo Alegre, Naguabo; Río Piedras (W. & O.) (14).

CINTRACTIA LEUCODERMA (Berk.) P. Henn.

(*Cintractia Krugiana* P. Magnus) (76).

On *Rynchospora* sp., Río Piedras, Pueblo Viejo, Bayamón; Cataño, El Yunque, Manatí (Stevens) (82).

Rynchospora gigantea, Martín Peña; Manatí (Sintenis).

Rynchospora corymbosa, Pueblo Viejo, Mayagüez, Cataño (Stevens) (14, 76, 82).

CINTRACTIA LIMITATA Clinton.

On *Cyperus ligularis*, Mayagüez, San Juan (Clinton); Boquerón (Stevens) (14, 82).

CINTRACTIA UTRICULICOLA (P. Henn.) Clinton.

On *Rynchospora aurea*, Mayagüez (Stevens) (82).

Rynchospora corymbosa, Río Piedras; Mayagüez (Stevens) (14, 82).

MYKOSYRINX CISSI (D. C.) G. Beck.

(*Schræteria cissi* D. C.) (76).

On *Cissus acida*, Salinas, Cabo Rojo (Sintenis).

Cissus erosa, Maricao (Sintenis).

Cissus sicyoides (14).

SPHAEOLOTHECA PANICI-LEUCOPHÆI (Bref.) Clinton.

On *Valota insularis* (*Trichachne insularis*), Campo Alegre; Barceloneta, Boquerón (W. & O.); Coamo Springs (Stevens) (14, 82).

SPHAEOLOTHECA PASPALI-NOTATI (P. Henn.) Clinton.

On *Paspalum* sp., Río Piedras.

TOLYPOSPORELLA BRUNKII (E. & G.) Clinton.

On *Andropogon Bicornis*, El Yunque (W. & O.).

USTILAGO SEGETUM Dittm.

Reported from the Schwanecke Collection (50). Host not given.

USTILAGO AFFINIS E. & E.

On *Stenotaphrum secundatum*, Río Piedras, Campo Alegre, Ca-
yey; Barceloneta (W. & O.); Arecibo, Bayamón, Punta
Santiago (Stevens) (82).

USTILAGO ZEÆ (Beckm.) Unger.

On *Zea mays*, Garrochales, Río Piedras; San Germán (Stevens)
(14, 82, 90, 94).

TILLETIACEÆ.

BURRILLIA ECHINODORI Clinton.

On *Echinodorus cordifolius*, Palo Seco; Guánica (Stevens) (82).

DOASSANSIA SINTENISH Bres.

Reported from the Sintenis collection (76), but said by Clinton
(14) to be insect work only.

ENTYLOMA AUSTRALE Speg.

On *Physalis* sp. (14).

ENTYLOMA GUARANITICUM Speg.

On *Bidens leucantha*, Río Piedras, Palo Seco, Bayamón (14).

ENTYLOMA LOBELIÆ Farl.

On *Lobelia* sp. (14).

THECAPHORA PUSTULATA Clinton (n. sp.).

On *Bidens leucantha*, Camuy; Mayagüez (W. & O.).

UROCYSTIS CEPULÆ Frost.

On *Allium sepa*. Mentioned by Henrickson (36, 90). Occur-
rence in Porto Rico doubtful.

UREDINALES.¹

COLEOSPORIACEÆ.

✓ COLEOSPORIUM ELEPHANTOPODIS (Schw.) Thüm.

On *Elephantopus mollis*, Espinosa, Río Piedras, Naguabo; Ma-
ricao, Corozal, Yauco, Jájome Alto, Jayuya, Mayagüez, Dos
Bocas, Santana (Stevens); Bayamón (Holway); Maya-
güez (Heller) (1, 19).

✓ COLEOSPORIUM EUPATORII Arthur.

On *Eupatorium macrophyllum*, Garrochales. First report from
Porto Rico.

¹ The *Uredinales* of Porto Rico have been very completely dealt with by Dr. Arthur in his publications in *Mycologia* (3, 4), based on the collections of Dr. F. L. Stevens and those of Prof. H. H. Whetzel and Dr. E. W. Olive. The list given here is based upon these papers, with the addition of the localities of our collections and three previously unreported species. Citations to the papers by Dr. Arthur are omitted since practically all species are there included.

/ COLEOSPORIUM IPOMÆÆ (Schw.) Burr.

On *Ipomœa angustifolia*, Campo Alegre.

Ipomœa batatas, Río Piedras; Naguabo (Stevens); Barceloneta, El Yunque (W. & O.)² (6, 81, 90, 94).

Ipomœa littoralis, San Juan (Holway).

Ipomœa nil, Guayanilla (Stevens).

Ipomœa rubra, Río Piedras; El Yunque (W. & O.).

Ipomœa stolonifera, Santurce; Vieques (Shafer) (102).

Jacquemontia tamnifolia, Río Piedras; Añasco (W. & O.).

Quamoclit coccinea, Vieques (Shafer).

/ COLEOSPORIUM PLUMIERÆ Pat.

On *Plumiera alba*, Guánica (W. & O.).

Plumiera Krugii, Maricao, Monte Alegre (Stevens).

Plumiera obtusa, Mona Island (Stevens) (12).

UREDINACEÆ.

CEROTELIUM CANAVALLÆ Arth.

On *Canavalia* sp., Río Piedras, Garrochales, Espinosa, Campo Alegre (1, 94).

Canavalia ensiformis, Mayagüez (Clinton); Manatí (Stevens); Barceloneta (W. & O.).

Canavalia gladiata, Mayagüez (Thomas); Río Piedras (Stevens) (82).

/ KUEHNEOLA FICI (Cast.) But.

On *Carica papaya*, reported from the Whetzel and Olive collection, but an error. The fungus on this host is *Puccinopsis caricae* Earle.

Ficus carica, Naguabo; San Juan (Earle) (1, 81, 94).

Ficus crassinervia, El Yunque (W. & O.).

Ficus laevigata, Santurce, Vega Baja, Mona Island, Cabo Rojo, Dos Bocas (Stevens); Barceloneta (W. & O.).

Ficus lentiginosa, Mayagüez, Yauco (W. & O.).

Ficus sp., Jayuya (Stevens).

KUEHNEOLA GOSSYPII (Lagerh.) Arth.

On *Gossypium barbadense*, Garrochales, Trujillo Alto; Isabela, Mona Island (Stevens) (12, 20, 81).

Gossypium brasiliense, Dos Bocas (Stevens).

Gossypium hirsutum, Mayagüez (Earle); Añasco, Yauco, Barceloneta (W. & O.) (1).

Gossypium sp., Río Piedras, (W. & O.).

² Whetzel and Olive.

KUEHNEOLA MALVICOLA (Speg.) Arth.

On *Malache seabra*, Martín Peña (W. & O.).

MILESIA COLUMBIENSIS (Dietel) Arth.

On *Nephrolepis rivularis*, Agucaltaria (Stevens).

OLIVEA CAPITULIFORMIS (P. Henn.) Arth.

(*Uredo capituliformis* P. Henn.)

On *Alchornea latifolia*, Naguabo; El Yunque (W. & O.); Preston's Ranch. Luquillo (Stevens).

OLIVEA PETITIÆ Arth.

On *Petitia domingensis*, Maricao (W. & O.).

PHYSOPELLA CONCORS Arthur.

(*Uredo concors* Arthur.)

On *Dolichos lablab*, Bayamón; El Yunque (W. & O.); Jayuya (Stevens).

Phaseolus lunatus, Bayamón, Mayagüez (94).

Teramnus uncinatus, Jayuya (Stevens).

PHYSOPELLA MEIBOMIÆ Arth.

On *Meibomia supina*, Añasco, Río Tanamá (W. & O.).

PHYSOPELLA VITIS (Thüm) Arth.

On *Vitis vinifera*, Pastillo Springs, Mayagüez (Stevens); Maricao (W. & O.) (81).

SCHRÖTERIASTER FENESTRALA Arth.

(*Uredo fenestrala* Arth.)

On *Phyllanthus distichus*, Sabana Llana; Mayagüez, Guánica (W. & O.).

Phyllanthus grandifolius, Bayamón, Villa Alba, Martín Peña (Stevens).

Phyllanthus niruri, Río Piedras.

ÆCIDIACEÆ (PUCCINIACEÆ).

ARGOMYCES INSULANUS Arth.

On *Vernonia albicaulis*, Dos Bocas (Stevens).

Vernonia longifolia, Villa Alba (Stevens).

ARGOMYCES VERNONIÆ Arth.

On *Vernonia albicaulis*, Bandera (Stevens).

Vernonia borinquensis, Consumo, Jájome Alto, El Gigante (Stevens); Cayey (Holway); Maricao (W. & O.) (1).

Vernonia phyllostachya, Cabo Rojo (Stevens); Barceloneta (W. & O.).

BOTRYORHIZA HIPPOCRATEA W. & O.

On *Hippocratea volubilis*, Río Piedras, Espinosa, Campo Alegre; Mayagüez, Barceloneta, El Yunque (W. & O.); Ciales, Rosario, Maricao, Vega Baja, San Germán, Luquillo, Jocuya (Stevens) (71, 82).

ENDOPHYLLUM CIRCUMSCRIPTUM (Schw.) W. & O.

(*Aecidium circumscriptum* Schw.)

On *Cissus sicyoides*, Río Piedras, Comerío, Pueblo Viejo, Camuy, Guaynabo; Mayagüez, San Germán, Luquillo, Corozal, Manatí, Aguada, Aguadilla, Jájome Alto, Guayanilla, Jayuya, El Gigante, Cabo Rojo, Dos Bocas, Naguabo (Stevens); Maricao, Río Tanamá, Coamo (W. & O.) (71).

ENDOPHYLLUM DECOLORATUM (Schw.) W. & O.

(*Aecidium decoloratum* Schw.)

On *Clibadium erosum*, Jájome Alto (Stevens); El Yunque (W. & O.) (71).

ENDOPHYLLUM STACHYTARPHETÆ (Henn.) W. & O.

On *Valerianodes cayennensis*, Espinosa, Río Piedras (71).

ENDOPHYLLUM WEDELIÆ (Earle) W. & O.

(*Aecidium wedeliae* Earle.)

On *Wedelia trilobata*, Cataño, Trujillo Alto, Río Piedras, Campo Alegre; Mayagüez, Cabo Rojo, Utuado, Maricao, Santana, El Gigante (Stevens); Barceloneta (W. & O.) (19, 71).

ENDOPHYLLOIDES PORTORICENSIS W. & O.

(*Aecidium expansum* Diet.)

On *Mikania cordifolia*, Naguabo; Coamo Springs, Mayagüez, Yauco, Monte de Oro, Lares, Jájome Alto, Dos Bocas, Villa Alba (Stevens); Maricao, San Germán, El Duque (W. & O.).

Mikania odoratissima, El Yunque, El Duque (W. & O.) (71).

HEMILEIA VASTATRIX Berk. & Br.

Said to have been introduced once on *Coffea arabica* (1, 81), but eradicated.

PROSPodium APPENDICULATUM (Wint.) Arth.

On *Stenolobium stans*, Hormigueros (Stevens); Santurce (W. & O.).

PROSPodium PLAGIOPUS (Mont.) Arth.

On *Tecoma pentaphylla*, Añasco, Río Piedras (W. & O.).

PUCCINIA ANGUSTATOIDES Stone.

On *Rynchospora aurea*, Mayagüez (Clinton).

Rynchospora corymbosa, Pueblo Viejo; Mayagüez (W. & O.).

Rynchospora cyperoides, El Yunque, Cataño (W. & O.).

PUCCINIA ARECHAVELATÆ Spieg.

On *Cardiospermum halicacabum*, Guánica (Sintenis) (76).

Cardiospermum microcarpum, Santana, Bayamón; Quebradillas, Desecheo (Stevens); San Juan (Holway); Fajardo, Maricao (W. & O.).

PUCCINIA BLECHI Lagerh.

On *Blechum Brownii*, Río Piedras, Sierra de Naguabo; Mayagüez (Stevens).

PUCCINIA CAMELIÆ (Mayor) Arthur.

On *Chatochloa setosa*, Mona Island (Stevens) (12).

PUCCINIA CANALICULATA (Schw.) Lagerh.

On *Cyperus articulatus*, Naguabo.

Cyperus cayennensis, Mayagüez (Clinton).

Cyperus distans, Porto Rico (Stevens).

Cyperus ferax, Río Piedras; Naguabo (Olive).

Cyperus giganteus, Mayagüez (W. & O.).

Cyperus lavigatus, Guánica (Stevens); Mayagüez (W. & O.).

Cyperus odoratus, San José, Río Piedras (Stevens); Martín Peña, Naguabo (W. & O.).

Cyperus polystachys, Cataño (Heller).

Cyperus radiatus, Canóvanas, Pueblo Viejo; Mayagüez (Stevens); Naguabo (W. & O.).

Cyperus reticulatus, Naguabo (W. & O.).

Cyperus spathcelatus, Espinosa, Sabana Llana, Río Piedras; Mayagüez, La Carmelita (Clinton); Campo Alegre, Cataño (W. & O.).

Cyperus surinamensis, Bayamón, Martín Peña; Añasco (Heller); Naguabo (Olive).

Cyperus sp., Villa Alba (Stevens).

Kyllingia brevifolia, Martín Peña (W. & O.).

Kyllingia pumila, Pueblo Viejo, Río Piedras; Añasco, El Yunque (W. & O.).

PUCCINIA CANNÆ (Wint.) P. Henn.

On *Calathea lutea*, Mayagüez (Stevens) (81).

Canna coccinea, Mameyes (Stevens); Maricao (W. & O.).

Canna glauca, Cabo Rojo (Stevens).

PUCCINIA CANNÆ (Wint.) P. Henn.—Continued.

On *Canna* sp., Espinosa, Naguabo, Campo Alegre, Río Piedras, Santurce, Corozal, Mayagüez, Añasco, Rosario (Stevens); Barceloneta (W. & O.).

Thalia geniculata, Añasco, Mayagüez (Stevens).

PUCCINIA CENCHRI Diet. & Holw.

On *Cenchrus carolinianus*, Camuy (Stevens).

Cenchrus echinatus, Guánica, Mona Island (Stevens); Mayagüez, Boquerón, Yauco, San Germán, Barceloneta, Río Tanamá (W. & O.) (12).

Cenchrus viridis, Campo Alegre; Guánica, Mona Island, Guayama (Stevens).

PUCCINIA CLADII Ell. & Tracy.

On *Mariscus jamaicensis*, Martín Peña (W. & O.).

PUCCINIA CONGRESENS E. & E.

On *Asclepias curassavica*, Espinosa, Ciales; Vega Baja, Aibonito, Manatí, Jajome Alto (Stevens); Comerío (Holway); Maricao (W. & O.) (1).

Asclepias nivea, Maricao (W. & O.).

PUCCINIA CORDLÆ Arth.

On *Cordia alliodora*, Ponce (Holway).

PUCCINIA CRASSIPES Berk. & Curt.

On *Ipomoea triloba*, Cortada, Mona Island (Stevens) (12).

PUCCINIA CUTICULOSA (Ell. & Ev.) Arth.

On *Cydista aequinoctialis*, Martín Peña (W. & O.).

PUCCINIA CYNODONTIS De Lac.

On *Capriola dactylon*, Río Piedras; Mayagüez (Stevens); Naguabo (W. & O.).

PUCCINIA DEFORMATA Berk. & Curt.

On *Olyra latifolia*, San Germán (Stevens).

PUCCINIA ELEOCHARIDIS Arth.

On *Eleocharis capitata*, Martín Peña; Laguna San José (Stevens); Mayagüez (W. & O.).

Eleocharis cellulosa, Santurce (Stevens).

Eleocharis flaccida, Bandera (Stevens).

Eleocharis geniculata, Naguabo; Mayagüez (Stevens); Añasco (Heller) (19).

Eleocharis interstincta, Mayagüez (Stevens).

Eleocharis mutata, Guanajibo (Stevens); Martín Peña (W. & O.).

PUCCINIA ELEOCHARIDIS Arth.—*Continued.*

On *Eleocharis* sp., Cataño (Stevens); Mayagüez (Heller, Clinton).

PUCCINIA EUPHORBLÆ P. Henn.

On *Aklemia petiolaris*, Mona Island (Stevens) (12).

PUCCINIA FALLACIOSA Arth.

(*Uredo fallaciosa* Arthur.)

On *Palicourea crocea*, Mayagüez, Maricao (W. & O.).

Palicourea riparia, El Yunque (W. & O.).

Psychotria patens, Maricao, Ponce (Stevens).

PUCCINIA FARINACEA Long.

On *Salvia coccinea*, El Gigante (Stevens); Mayagüez, Maricao (W. & O.).

PUCCINIA FIMBRISTYLEDIS Arth.

On *Fimbristylis diphylla*, Río Piedras; Ponce (Stevens); Barranquitas, Campo Alegre (W. & O.).

Fimbristylis ferruginea, Martín Peña; Joyuda, Santurce (Stevens).

Fimbristylis milacea, Río Piedras.

Fimbristylis sp., Mayagüez (Clinton).

PUCCINIA GOUANÆ Holw.

On *Gouania lupuloides*, Rosario, Yauco, Cabo Rojo (Stevens); Mayagüez (Holway).

Gouania polygama, Mayagüez, Rosario, Lares, Aguadilla, San Germán (Stevens); Añasco (W. & O.).

PUCCINIA HELICONIÆ (Deit.) Arth.

(*Uredo heliconiae* Diet.)

On *Bihai borinquena*, El Yunque (W. & O.). The new combination made by Dr. Arthur in Bul. Tor. Bot. Club, v. 75, no. 4, April 1918, pp. 144-5.

PUCCINIA HETEROSPORA B. & C.

(*Uromyces pavoniae* Arth.)

On *Abutilon hirtum*, Guánica (Stevens).

Abutilon indicum, Peñuelas, Tallaboa, Coamo (Sintenis) (76).

Malache scabra, Mayagüez, Jayuya (Underwood).

Sida cordifolia, Cabo Rojo (Sintenis) (76).

Sida glutinosa, Villa Alba (Stevens).

Sida hederifolia, Mayagüez (W. & O.).

Sida humilis, Martín Peña; Boquerón (Stevens); Vieques (Shafer); Yauco (W. & O.); Guánica (Sintenis) (76).

PUCCINIA HETEROSPORA B. & C.—Continued.

On *Sida procumbens*, Guánica, Desechoe (Stevens).

Sida spinosa, Guayama (Stevens).

Sida urens, Garrochales, Río Piedras; Guayanilla, Coamo Springs, Vega Baja, Yauco, Maricao, Rosario, Vega Alta, Ponce, Aguada, El Gigante, Mayagüez (Stevens); Añasco, Boquerón (W. & O.).

Wissadula periplocifolia, Coamo Springs, Guánica (Stevens).

PUCCINIA HUBERI P. Henn.

On *Panicum fasciculatum*, Vega Baja; Río Tanamá (Stevens); Barceloneta (W. & O.).

Panicum trichoides, Aibonito, Río Piedras; Villa Alba, Maricao, Adjuntas, Jayuya (Stevens); La Carmelita (Clinton); Mayagüez, Río Tanamá (W. & O.).

Panicum utowanæum, Mona Island (82).

PUCCINIA HYDROCOTYLES (Link.) Cook.

On *Hydrocotyle australis*, Pueblo Viejo.

Hydrocotyle umbellata, Mayagüez, Yauco (W. & O.).

PUCCINIA HYPTIDIS (M. A. Curt.) Tracy & Earle.

On *Hyptis capitata*, Río Piedras, Mayagüez; Bayamón (Holway); Maricao (W. & O.); Villa Alba, Coamo Springs, Vega Baja, Añasco, Rosario, Quebradillas, Monte de Oro, Lares, El Gigante (Stevens).

PUCCINIA INFLATA Arth.

On *Stigmaphyllo lingulatum*, Santurce, Mayagüez; Ponce (Holway); Desechoe, Boquerón, Guánica, Coamo Springs, Mona Island (Stevens); Yauco, Fajardo, Coamo (W. & O.) (12).

PUCCINIA INSITITIA Arth.

On *Hyptis lantanifolium*, Aibonito (Stevens); Maricao (W. & O.).

PUCCINIA LANTANÆ Farl.

On *Lantana camara*, Guánica, Lares, Guayanilla (Stevens).

Lantana involucrata, Quebradillas; Boquerón, Arecibo, Quebradillas, San Germán, Mona Island (Stevens); Yauco (W. & O.).

PUCCINIA LATERITIA Berk. & Curt.

On *Borreria laevis*, Río Piedras, Canóvanas; Mayagüez (Clinton); Vega Baja, Cabo Rojo, Coamo Springs, San Sebastián (Stevens).

PUCCINIA LATERITIA Berk & Curt.—Continued.

On *Borreria verticillata*, Río Piedras; Mayagüez, Boquerón, Bayamón, Indiera Fría, Cataño, Utuado, Lares, Aguada, Quebradillas (Stevens); Maricao, San Germán, Barceloneta (W. & O.).

Diodia littoralis, Boquerón (W. & O.).

Diodia maritima, Palo Seco, Cataño; Mayagüez (Stevens), Santurce (W. & O.).

Diodia rigida, Campo Alegre, Espinosa, Garrochales, Camuy, Naguabo; Manatí, Río Piedras (Stevens); Mayagüez, Barceloneta (W. & O.).

Ernodea littoralis, Boquerón, Mona Island (Stevens) (12). *Mitracarpus portoricensis*, Guánica (Stevens).

Spermacoce riparia, Aguadilla (Stevens).

Spermacoce tenuior, Campo Alegre; Hormigueros, Guánica, Coamo Springs, Cabo Rojo, San Germán (Stevens); Vieques (Shafer) (102).

PUCCINIA LEONOTIDIS (P. Henn.) Arthur.

On *Leontotis nepetifolia*, Río Piedras, Espinosa; Yabucoa, Coamo Springs, Hormigueros, Bayamón, Lares, Guayama, Guayanilla (Stevens); Ponce (Holway); Mayagüez, Yauco, Boquerón, Barceloneta (W. & O.).

PUCCINIA LEVIS (Sacc. & Bizz.) Mag.

On *Paspalum fimbriatum*, Cabo Rojo (Stevens); Yauco (W. & O.).

Paspalum millegrana, Campo Alegre (W. & O.).

Paspalum plicatum, Río Piedras; Vega Baja (Stevens).

Rytillix granularis, Rosario (Stevens); Maricao (Sintenis) (76).

PUCCINIA LITHOSPERMI Ell. & Kellerm.

On *Evolvulus nummularius*, Mayagüez, Añasco (W. & O.).

PUCCINIA MACROPODA Speg.

On *Iresine elatior*, Desecheo (Stevens).

PUCCINIA MEDELLINENSIS Mayor.

On *Hyptis atrorubens*, Río Piedras, Espinosa; Santurce (Stevens); Martín Peña, Naguabo (W. & O.).

Hyptis pectinatum, Río Piedras; Villa Alba, Coamo Springs, Corozal, Mayagüez, Rosario, Lares, Cabo Rojo (Stevens); Maricao, Yauco (W. & O.) (1).

PUCCINIA MEDELLINENSIS Mayor.—Continued.

On *Hyptis suaveolens*, Vega Baja; Mayagüez, Ponce, Aguada, Guayama, Guayanilla (Stevens); La Carmelita (Clinton); Aibonito (Holway); Añasco (W. & O.).

PUCCINIA OBLIQUA Berk. & Curt.

On *Metastelma lincare*, Espinosa; Barros (Stevens); Maricao (W. & O.).

Metastelma parviflorum, Vega Baja, Quebradillas (Stevens); Mayagüez (W. & O.).

PUCCINIA ORMOSIAE Arth.

On *Ormosia Krugii*, Sierra de Naguabo; El Yunque (W. & O.).

PUCCINIA POLYGONI-AMPHIBII Pers.

On *Persicaria portoricensis*, Río Piedras.

Persicaria punctata, Sabana Llana; Mayagüez, Coamo (W. & O.).

PUCCINIA PSIDII Wint.

On *Jambos jambos*, Consumo, Maricao, Río Piedras, Barros, Villa Alba, Monte de Oro, Jájome Alto, El Gigante (Stevens).

Psidium guayava, Villa Alba (Stevens).

PUCCINIA PURPUREA Cooke.

On *Holcus halepensis*, Palo Seco, Sabana Llana, Vega Baja.

Holcus sorghum, Patillas, Mayagüez, Río Piedras, Ensenada, Trujillo Alto; La Carmelita (Clinton) (94).

Holcus sorghum var. *sudanensis*, Río Piedras, Trujillo Alto; Mayagüez (W. & O.) (94).

PUCCINIA RIVINAE (Berk. & Curt.) Speg.

On *Rivina humilis*, Desecheo (Stevens); Yauco (W. & O.); Fajardo (Sintenis) (76).

Trichostigma octandrum, Yauco, Coamo (W. & O.).

PUCCINIA ROSEA (Diet. & Holw.) Arth.

On *Ageratum conyzoides*, Villa Alba, Utuado, Monte Allegrillo (Stevens); Yauco (W. & O.).

Eupatorium polyodon, Barros (Stevens).

PUCCINIA SALVICOLA Diet. & Holw.

On *Salvia occidentalis*, Camuy, Palo Seco; Mayagüez, Corozal, Aguada (Stevens); Caguas (Heller); La Carmelita (Clinton); Ponce (Holway); Maricao, Yauco (W. & O.).

PUCCINIA SCIRPI De.

On *Scirpus lacustris*, Guánica (Heller).

PUCCINIA SCLERIÆ (Paz.) Arth.

(Accidium *passifloricola* P. Henn.)On *Scleria cubensis*, Maricao (W. & O.).*Scleria pterota*, Mayagüez, Maricao, El Yunque, Naguabo (W. & O.).*Passiflora rubra*, Mayagüez (Stevens); Maricao (W. & O.) (97).

PUCCINIA SCLERICOLA Arth.

On *Scleria hirtella*, Río Piedras.*Scleria* sp., Naguabo (Stevens).

PUCCINIA SMILACIS Schw.

On *Smilax domingensis*, Maricao (W. & O.).

PUCCINIA SPEGAZZINI Det.

On *Mikania scandens*, Mayagüez (W. & O.).

PUCCINIA SUBSTRIATA.

(Accidium *tubulosum* Pat. & Gaill.)On *Chatochloa geniculata*, Río Piedras.*Eriochloa subglabra*, Río Piedras, Mayagüez.*Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.).*Paspalum glabrum*, Vega Baja (Stevens).*Paspalum orbiculatum*, Monte de Oro (Stevens).*Paspalum paniculatum*, Naguabo, Río Piedras; Mayagüez, Monte Alegrillo (Stevens); Maricao, San Germán (W. & O.).*Paspalum portoricensc*, Vega Baja.*Paspalum secans*, Campo Alegre; Bayamón (Holway).*Syntherisma digitata*, Río Piedras; Barceloneta, El Duque (W. & O.).*Valota insularis*, Vega Baja. Campo Alegre; Boquerón, San Germán (W. & O.).*Solanum torvum*, Río Piedras, Trujillo Alto, Vega Baja; Mayagüez (Heller); San Juan (Holway); Corozal, Yauco, Rosario, El Gigante, Maricao, Lares, Jájome Alto, Monte de Orc, Cayey, Jayuya, Cabo Rojo (Stevens); Utuado (W. & O.) (97).

PUCCINIA SYNEDRELLÆ P. Henn.

On *Eleutheranthera ruderalis*, Carolina, Río Piedras; Mayagüez, Aguada (Stevens).*Emilia sonchifolia*, Bayamón, Río Piedras, Ponce, Espinosa, Hormigueros, Guayama, Yauco, San Germán (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

PUCCINIA SYNEDRELLÆ P. Henn.—Continued.

On *Neurolæna lobata*, Florida Adentro (Stevens).

Synedrella nodiflora, Río Piedras, Trujillo Alto; Barros, Caguas, Cabo Rojo, Santa Catalina, Yauco, Isabela, Rosario, Alegreillo, Lares, San Sebastián, Guayama, Monte de Oro, Jájome Alto, Utuado, Guayanilla (Stevens); Mayagüez, El Duque (W. & O.).

PUCCINIA TAGETICOLA Diet. & Holw.

On *Tagetes erecta*, Maricao (W. & O.).

Tagetes patula, Maricao (Stevens).

PUCCINIA URBANIANA P. Henn.

On *Valerianodes cayennensis*, Santurce.

Valerianodes jamaicensis, Río Piedras, Camuy, Campo Alegre, Naguabo, Añasco; Santurce, Vega Baja, Manatí, Guayama, Dos Bocas (Stevens); San Juan (Earle); Mayagüez (Clinton); Boquerón, San Germán, Barceloneta, Fajardo, Campo Alegre (W. & O.).

Valerianodes strigosa, Cabo Rojo, Mona Island (Stevens); Coamo, Mayagüez (W. & O.).

PUCCINIA XANTHII Schw.

On *Xanthium longirostre*, Santurce.

PUCCINIA ZORNII (Diet.) McAlp.

On *Zornia diphylla*, Río Piedras; Mayagüez (W. & O.).

PUCCINIOSIRA PALLIDULA (Speg.) Lagerh.

On *Triumfetta lappula*, Ponce (Heller) (1).

Triumfetta rhomboidea, Bayamón; Santurce. Aguada, Mayagüez (Stevens).

Triumfetta semitriloba, Mayagüez, Maricao, Yauco (W. & O.).

Triumfetta sp., Río Piedras, Pueblo Viejo, Espinosa; Villa Alba, Mayagüez, Bayamón, Aibonito, Maricao, Rosario, El Gigante, Dos Bocas (Stevens).

✓ RAVENELIA CÆSALPINIÆ Arth.

On *Mimosa ceratonia*, Río Piedras; Bayamón, Vega Baja, Monte Allegreillo, Santa Catalina, Cabo Rojo, Indiera Fría, Aibonito, Vega Alta, San Sebastián, Lares, Manatí, Luquillo Forest, San Germán, El Gigante, Naguabo (Stevens); Mayagüez, Maricao, Barceloneta (W. & O.) (1).

RAVENELIA CASSIÆCOLA Atks.

On *Chamaecrista eschynomene*, El Gigante (Stevens).

Chamaecrista glandulosa, Vega Baja, Trujillo Alto.

RAVENELIA CAULICOLA Arth.

On *Cracca cinerea*, Cataño, Santurce; Quebradillas, Desecho (Stevens).

RAVENELIA CEBIL Speg.

On *Piptadenia peregrina*, Peñuelas (Stevens).

RAVENELIA INDIGOFERÆ Tranz.

On *Indigofera suffruticosa*, Cataño, Espinosa; Boquerón, Bayamón, Jayuya, Mayagüez, Aguada (Stevens); Añaseo, Yauco, Barceloneta, Naguabo (W. & O.).

RAVENELIA HUMPHREYANA P. Henn.

On *Cæsalpinia pulcherrima*, Río Piedras (94).

RAVENELIA INGÆ (P. Henn.) Arthur.

On *Inga laurina*, Maricao, El Yunque (W. & O.).

Inga vera, Monte Montosa, Monte Alegre (Stevens); Ponce (Barret) (1).

RAVENELIA PORTORICENSIS Arth.

On *Cassia emarginata*, Ponce (Heller) (1).

RAVENELIA SILIQUEÆ Long.

On *Vachellia Farnesiana*, Yauco, Coamo (W. & O.).

RAVENELIA STEVENSII Arth.

On *Acacia riparia*, Guayanilla, Vega Baja, Peñuelas (Stevens); Coamo (W. & O.).

RAVENELIA WHETZELII Arth.

On *Inga vera*, Maricao, Mayagüez (W. & O.).

TRANZSCHELIA PUNCTATA (Pers.) Arth.

On *Amygdalus persica*, Naguabo; Mayagüez (Earle) (1, 94).

UROMYCES APPENDICULATUS (Pers.) Fries.

On *Phaseolus adenanthus*, Río Piedras; Vega Baja (Stevens); Caguas (Holway); Arecibo (Clinton); Mayagüez, Barceloneta (W. & O.).

Phaseolus lathyroides, Maricao (W. & O.).

Phaseolus vulgaris, Camuy, Barceloneta, Río Piedras; Cabo Rojo (Stevens); Mayagüez (Clinton, Earle); Maricao (W. & O.) (2, 20, 90, 94).

Vigna repens, Río Piedras; Arecibo (Stevens); Mayagüez (W. & O.).

Vigna vexillata, Mayagüez (Stevens).

UROMYCES BIDENTICOLA (P. Henn.) Arth.

On *Bidens leucantha*, Pueblo Viejo, Palo Seco, Vega Baja, Espinosa, Fajardo, Naguabo; Santurce, Aibonito, Añasco, Mayagüez, Monte Alegrillo, Lares, Aguada, Dos Bocas (Stevens); Yauco, Hormigueros, Barceloneta (W. & O.).
Bidens pilosa, Arecibo-Lares, Río Piedras, Río Tanamá, Maricao (Stevens); Boquerón, San Germán (W. & O.).
Cosmos caudatus, Barros, Jayuya (Stevens).

UROMYCES BIDENTIS Lagerh.

(*Uromyces densus* Arthur.)

On *Bidens pilosa*, Ponce (Stevens); Maricao (W. & O.).

UROMYCES CARYOPHYLLINUS (Schrank.) Wint.

On *Dianthus* sp., San Juan (94).

UROMYCES CESTRI Mont.

On *Cestrum laurifolium*, Martín Peña, Camuy; Cabo Rojo, Monte Alegrillo, Quebradillas, San Germán, Arecibo-Lares Road (Stevens); Fajardo, Campo Alegre (W. & O.).
Cestrum macrophyllum, El Duque, Barros, Maricao, Ponce, Monte Alegrillo, Lares, Luquillo Forest, Monte de Oro, Dos Bocas, Naguabo (Stevens); Maricao, Barceloneta, Río Tanamá (W. & O.).

UROMYCES COLOGANIE Arth.

On *Teramnus uncinatus*, Cayey (Holway) (2).

UROMYCES COLUMBIANUS Mayor.

On *Melanthera canescens*, Palo Seco, Aibonito, Río Piedras, Espinosa; Ciales, Añasco, Corozal, Yauco, Mayagüez, Vega Baja, Cayey, Cabo Rojo, Rosario, Utuado, Quebradillas, Guayanilla, Dos Bocas, Jayuya (Stevens); Maricao, Barceloneta (W. & O.).

UROMYCES COMMELINAE (Speg.) Cooke.

On *Commelina virginica*, Desecheo (Stevens).

UROMYCES DOLICHOLI Arth.

On *Cajanus indicus*, Espinosa, Campo Alegre, Río Piedras; Guayanilla, Corozal, Jayuya, Rosario, Mayagüez, Vega Baja, Manatí, Quebradillas (Stevens); Yauco (W. & O.) (81, 90, 94).

Dolicholus eninimus, Guánica (W. & O.).

Dolicholus reticulatus, Boquerón, Aguada, Vega Baja (Stevens); Bayamón (Heller); Mayagüez (W. & O.).

UROMYCES ERAGROSTIDIS Tracy.

On *Eragrostis tephrosanthes*, Río Piedras; Bayamón (Stevens); San Germán (W. & O.) (2).

UROMYCES GEMMATUS Berk. & Curt.

On *Jacquemontia nodiflora*, Coamo Springs, Desecheo, San Germán, Guánica, Guayanilla (Stevens); Ponce (Holway).

UROMYCES HEDYSARI-PANICULATI (Schw.) Farl.

On *Meibomia axillaris*, Cabo Rojo (Stevens).

Meibomia scorpiurus, Mayagüez, Peñuelas (Stevens); Yauco (Heller).

Meibomia tortuosum, Sabana Llana; Yauco (W. & O.).

UROMYCES HELLERIANUS Arth.

On *Cayaponia americana*, Sierra de Naguabo; Maricao, Cabo Rojo (Stevens).

Cayaponia racemosa, Río Piedras, Campo Alegre; Corozal (Stevens); Mayagüez, Barceloneta. El Yunque, El Duque (W. & O.) (2).

Melothria guadalupensis, Río Piedras; Yauco, Rosario, Utuado, San Germán (Stevens); Mayagüez, El Duque (W. & O.).

UROMYCES HOWEI Peck.

On *Asclepias curassavica*, Comerío (Holway); Maricao (W. & O.).

UROMYCES IGNOBILIS (Sydow) Arth.

On *Sporobolus indicus*, Río Piedras, Campo Alegre; Mayagüez (Stevens); Naguabo (W. & O.).

Sporobolus virginicus, Camuy (Stevens).

UROMYCES JAMAICENSIS Vestery.

On *Bauhinia pauletia*, San Germán (Stevens); Mayagüez (Holway).

UROMYCES JANIPHÆ (Wint.) Arth.

On *Manihot manihot*, Río Piedras; Vega Baja (Stevens) (81, 90).

UROMYCES LEPTODERMUS Sydow.

On *Lasiacis divaricata*, Espinosa; Coleña, Utuado, San Germán, Maricao, Mona Island (Stevens).

Lasiacis ligulata, Maricao (W. & O.).

Lasiacis Sloanei, Arecibo (Stevens).

Lasiacis sorghoidea, Mayagüez, Maricao (W. & O.).

Panicum barbinode, Carolina, Río Piedras; Guánica, Boquerón, Mayagüez, Peñuelas (Stevens).

Panicum parviflorum, Martín Peña (W. & O.).

UROMYCES NEUROCARPI Dietel.

On *Clitoria cajanifolia*, Mayagüez (Stevens); San Juan (Britton) (2).

Clitoria rubiginosa, Espinosa, Naguabo, Camuy, Santurce, Río Piedras; Dorado (Stevens); Mayagüez, Barceloneta, Martín Peña (W. & O.).

UROMYCES PIANHYENSIS P. Henn.

On *Wedelia reticulata*, San Germán (Stevens); Yauco, Río Tánamá (W. & O.).

UROMYCES PRÆMINENS (D. C.) Pass.

On *Chamäsyce brasiliensis*, Mayagüez (W. & O.).

Chamäsyce hirta, Vega Baja, Camuy, Espinosa; Cataño, Vega Baja, Lares, Coamo Springs, Arecibo, Aguada, Guayama, Río Piedras, San Germán, Guayanilla (Stevens); Mayagüez (Clinton); Yauco, San Germán (W. & O.).

Chamäsyce hypericifolia, Fajardo, Río Piedras; Lajas (Stevens).

Chamäsyce prostrata, Río Piedras; Bayamón.

UROMYCES RHYNCOSPORÆ Ellis.

On *Rynchospora distans*, Martín Peña (W. & O.).

Rynchospora micrantha, Naguabo (Stevens).

Rynchospora setacea, Martín Peña (W. & O.) (2).

UROMYCES SCLERIÆ P. Henn.

On *Scleria canescens*, Jájome Alto, El Alto de la Bandera (Stevens); El Yunque (W. & O.).

Scleria pterota, Río Piedras, Vega Baja; Luquillo Forest (Stevens); Mayagüez, Añasco, Naguabo (W. & O.) (2).

UROMYCES SABINEÆ Arth.

On *Sabinea punicea*, Maricao (W. & O.).

FORM-GENUS: AECIDIUM.

AECIDIUM ABSCENDENS Arth.

On *Randia aculeata*, Martín Peña, Bayamón; Mayagüez, Cataño, Aguada (Stevens); Barceloneta, Campo Alegre (W. & O.).

AECIDIUM BORRERIÆ Pat.

On *Hemidiodia ocimifolia*, Sierra de Naguabo; Mayagüez (Stevens); El Yunque (W. & O.).

AECIDIUM CIRCUMSCRIPTUM Schw.

See *Endophyllum circumscriptum*.

AECIDIUM DECOLORATUM Schw.

See *Endophyllum decoloratum*.

AECIDIUM EXPANSUM Diet.

See *Endophylloides portoricense*.

AECIDIUM FAVACEUM Arth.

On *Phyllanthus nobilis*, San Germán, Hormigueros (Stevens).

AECIDIUM PASSIFLORICOLA P. Henn.

See *Puccinia scleriae*.

AECIDIUM TOURNEFORTIÆ P. Henn.

On *Tournefortia bicolor*, Barceloneta (W. & O.).

Tournefortia hirsutissima, Río Piedras; Yauco, Rosario (Stevens).

Tournefortia microphylla, Yauco (W. & O.).

AECIDIUM TUBULOSUM Pat. & Gaill.

See *Puccinia substriatum*.

AECIDIUM WEDELIÆ Earle.

See *Endophyllum wedeliae*.

FORM-GENUS: UREDO.

UREDO ÆSCHYNOMENIS Arth.

On *Aeschynomene americana*, Río Piedras, Campo Alegre; Mayagüez, Ponce, Maricao, Rosario, Utuado, Aguada (Stevens).

UREDO ANTHRUIÆ Hariot.

On *Anthurium scandens*, El Alto de la Bandera (Stevens).

UREDO ARACHIDIS Lagerh.

On *Arachis hypogaea*, Espinosa, Río Piedras, Pueblo Viejo; Dorado (Stevens) (81, 90, 94).

UREDO ARTOCARPI B. & Br.

On *Artocarpus comansi*, Mayagüez (Stevens).

Artocarpus communis, Río Piedras; Mayagüez (Clinton) (1, 81).

UREDO BIXÆ Arth.

On *Bixa orellana*, Adjuntas (Stevens); Maricao (W. & O.).

UREDO CABRERIANA Kern & Kellerm.

On *Erythrina glauca*, Río Piedras, Guaynabo; Bayamón (Holway).

UREDO CLUSIÆ Arth.

On *Clusia rosea*, Maricao (W. & O.).

UREDO COCCOLOBAE P. Henn.

On *Coccoloba uvifera*, Cataño; Mayagüez, Boquerón, San Germán (W. & O.).

UREDO COMMELYNÆ Kalchbr.

On *Commelina nudiflora*, Palo Seco.

Commélina virginica, Palo Seco; Coamo Springs (Stevens); Arecibo (Heller); Sabana Llana (Goll).

UREDO CUPHEÆ P. Henn.

On *Cuphea Parsonsia*, Río Piedras; Cabo Rojo (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

UREDO DICHROMENÆ Arth.

On *Dichromena ciliata*, Río Piedras, Sierra de Naguabo; Mayagüez (Clinton).

Dichromena radicans, Guayama (Stevens); Mayagüez, Maricao, Añasco, El Duque, Naguabo (W. & O.).

UREDO DIOSCOREÆ P. Henn.

On *Dioscorea polygonoides*, El Yunque (W. & O.).

Rajania cordata, Río Piedras, Sierra de Naguabo; Bayamón, Jájome Alto, El Gigante, Dos Bocas, Santana (Stevens); Maricao, Río Tanamá, Barceloneta, El Yunque (W. & O.).

UREDO ERYTHROXYLONIS Guz.

On *Erythroxylon areolatum*, Mona Island (Stevens).

UREDO FUIRENÆ P. Henn.

On *Fuirenia umbellata*, Naguabo; Santurce, Aguas Buenas, Mayagüez, Santa Catalina, Cataño (Stevens); Bayamón (Holway); El Yunque (W. & O.).

UREDO GLOBULOSA Arth.

On *Hypoxis decumbers*, Campo Alegre, Río Piedras, Vega Baja; Las Marías, Bandera (Stevens); Maricao, Añasco (W. & O.).

UREDO GOUANIÆ Ellis & Kelsey.

On *Gouania lupuloides*, Garrochales, Camuy, Naguabo, Jájome Alto, Aguadilla, San Germán (Stevens).

Gouania polygama, Guánica (Stevens).

UREDO GUACÆ Mayor.

On *Epidendrum difforme*, Cayey; Jájome Alto (Stevens).

Epidendrum rigidum, Cayey (Holway).

UREDO GYMNOCRAMMES P. Henn.

On *Adiantum latifolium*, Las Marías (Stevens); Mayagüez (W. & O.).

Dryopteris mollis, Mayagüez (W. & O.).

Dryopteris poiteana, Villa Alba (Stevens); Mayagüez, Maricao (W. & O.).

Gomiopteris guadalupensis, Mayagüez (W. & O.).

Pityrogramma calomelana, Maricao (W. & O.).

Tectaria marteniensis, Mayagüez (W. & O.).

UREDO GYNANDREARUM Corda.

On *Habenaria maculosa*, Cataño (Millspaugh); Bayamón (Heller).

Prescottia oligantha, Maricao (W. & O.).

UREDO HAMELLÆ Arth.

On *Hamelia erecta*, Espinosa; Lajas (Stevens); Yauco (W. & O.).

UREDO HELICONIÆ Diet.

See *Puccinia heliconiae*.

UREDO HYMENÆÆ Mayor.

On *Hymenaea courbaril*, Martín Peña, Naguabo, Bayamón; Javya, Mayagüez, Añasco, Vega Baja (Stevens); Fajardo, Campo Alegre, Coamo (W. & O.).

UREDO JATROPHICOLA Arth.

On *Jatropha curcas*, Hormigueros (Stevens).

Jatropha gossypifolia, Río Piedras, Palo Seco, Martín Peña; San Germán, Guayama, Guayanilla (Stevens); Yauco, Río Tanamá (W. & O.).

UREDO LUTEA Arth.

On *Cassia quinquangulata*, Maricao, Jájome Alto, Naguabo (Stevens); El Yunque (W. & O.).

UREDO NIGROPUNCTATA P. Henn.

On *Bletia patula*, Maricao (Stevens).

UREDO NOTATA Arth.

On *Byrsonima crassifolia*, Mayagüez (W. & O.).

UREDO OLYRÆ P. Henn.

On *Oplismenus hirtellus*, Las Marías (Stevens).

UREDO OPERCULINÆ Arthur.

On *Operculina dissecta*, Yauco (W. & O.).

UREDO PALLIDA Diet. & Holw.

On *Zea mays*, Río Piedras, Punta Cangrejos, Sierra de Naguabo (90, 94).

UREDO PASPALICGLA P. Henn.

(Uredo *Stevensiana* Arth.)On *Axonopus compressus*, Mayagüez (Stevens).*Bambusa vulgaris*, Vega Baja, Espinosa; Maricao, Mayagüez (W. & O.) (94).*Paspalum conjugatum*, Espinosa, Río Piedras; Adjuntas (Stevens); Mayagüez, Maricao (W. & O.).*Paspalum glabrum*, Mayagüez (Stevens).*Paspalum paniculatum*, Vega Baja (Stevens).*Paspalum plicatulum*, Río Piedras, Guaynabo; Mayagüez (Stevens); Añasco (W. & O.).

UREDO PIPERIS P. Henn.

On *Peperomia hernandifolia*, El Alto de la Bandera (Stevens).

UREDO PLUCHEA Syd.

(Uredo *biocellata* Arth.)On *Plucheia odorata*, Ponce, Vega Baja (Stevens); Guánica (Millspaugh).*Plucheia purpurascens*, Santurce, Cabo Rojo, Mona Island (Stevens); Mayagüez (W. & O.) (12).

UREDO PROXIMELLA Arth.

On *Lactuca intybacea*, Sabana Grande (Stevens); Barceloneta (W. & O.).

UREDO PUSTULATA P. Henn.

On *Stenorhynchus lanceolatus*, Las Marías (Stevens).

UREDO RUBESCENS Arth.

On *Dorstenia contrajerva*, Moca; Camuy (Stevens).

UREDO SABICEICOLA Arth.

On *Sabicea aspera*, Mayagüez (Stevens); Maricao (W. & O.).

UREDO SAUVAGESIÆ Arth.

On *Sauvagesia erecta*, Sierra de Naguabo; Jájome Alto (Stevens); El Yunque (W. & O.).

UREDO SPARGANOPHORI P. Henn.

On *Struchium sparganophori*, Carolina; Mayagüez (Stevens).

UREDO SUPERIOR Arth.

On *Fimbristylis ferruginea*, Martín Peña (W. & O.).*Fimbristylis spadicea*, Ponce (Heller); Mayagüez (W. & O.).

UREDO TRICHILIA Arth.

On *Trichilia pallida*, Maricao (W. & O.).

UREDO VENUSTULA Arth.

On *Andropogon brevifolius*, Río Piedras; Las Marías (Stevens).

UREDO VICINA Arth.

On *Wedelia lanceolata*, Guánica (Stevens)

TREMELLACEÆ.

AURICULARIA AURICULA-JUDÆ (L.) Schrt.

(*Hirneola auricula-juda* Berk.)

On rotten wood, Río Piedras, El Duque, Barceloneta, Santana, Fajardo, Caguas, El Yunque, Espinosa, Moca, Mameyes, Dorado; Adjuntas (Sintenis, 76) (82).

AURICULARIA AURIFORMIS (S.) Earle.

(*Exidia auriformis* Fr.)

Reported from the Schwanecke collection (50).

AURICULARIA DELICATA (Fr.) Henn.

(*Laschia lamellosa* Pat.)

On dead wood, Río Piedras. Also reported from the Sintenis collection (76), Barceloneta.

AURICULARIA NIGRESCENS (Sw.) Farlow.

(*Auricularia polytricha* [Mont.] Sacc.)

On dead wood, Espinosa: Vieques (Shafer) (102).

GUEPINIA PALMICEPS Berk.

On sugar-cane debris and rotten wood, Río Piedras; Yabueoa (Sintenis, 76) (48).

GUEPINIA SPATHULATA Schw.

On rotten wood, Río Piedras, Espinosa, Sabana Llana: El Yunque (Stevens) (48, 82).

TREMELLA FUCIFORMIS Berk.

On humus, Bayamón.

TREMELLA RUFOLOUTEA Berk.

On rotten wood, El Yunque.

CLAVARIACEÆ.

CLAVARIA FUMOSA Pers.

On soil, Martín Peña.

CLAVARIA INEQUALIS Mull.

On soil, Río Piedras.

THELEPHORACEÆ.¹

ASTEROSTROMA CERVICOLOR (B. & C.) Massee.

On soil and cane trash, Camuy, Río Piedras (48).

CLADODERRIS DENDRITICA Pers.

On dead sugar-cane stalk, Río Piedras.

¹ The majority of the determinations in this family by Dr. E. A. Burt.

CORTICUM ARACHNOIDEUM Berk.

On soil and sugar-cane trash, Río Piedras.

CORTICUM CONFLUENS Fr.

On dead citrus branch, Campo Alegre (96).

CORTICUM CONTIGUUM Karst.

On dead wood, Río Piedras.

CORTICUM DEBILE B. & C.

On dead wood, Río Piedras.

CORTICUM INVESTIENS (Schw.) Bres.

On dead wood, Río Piedras, Martín Peña.

CORTICUM KOLEROGA (Cooke) v. Höhn.

(*Pellicularia koleroga* Cooke.)

On *Coffea arabica*, Mayagüez (Thomas). The status of *Pellicularia koleroga* determined by Dr. Burt. ("Corticium causing plant diseases." In Ann. Mo. Bot. Garden, v. 5, no. 2, April 1918, p. 119-132.) For additional Porto Rican data see under *Pellicularia*.

CORTICUM LACTESCENS Berk.

On dead wood, Río Piedras.

CORTICUM PORTENTOSUM B. & C.

On dead wood, Fajardo, Campo Alegre, Río Piedras, Martín Peña.

CORTICUM SALMONICOLOR B. & Br.

On *Citrus decumana*, Río Piedras, Trujillo Alto, Garrochales, Espinosa (86, 89, 96).

Citrus sinensis, Pueblo Viejo.

Theobroma cacao, Mayagüez (Fawcett) (30).

CORTICUM SIMILE B. & C.

On dead sticks, Río Piedras.

CORTICUM SUBCONTINUUM B. & C.

On dead sticks, Río Piedras.

CORTICUM TIPHRUM B. & C.

On dead wood, Bayamón.

CORTICUM VAGUM B. & C.

On *Solanum tuberosum*. Reported by Barrett (6, 15), but occurrence doubtful.

HETEROCHÆTE ANDINA Pat.

On dead sticks, Bayamón.

HYMENOCHÆTE CACAO Berk.

Reported from the Sintenis collection (76).

HYMENOCHÆTE DAMÆCORNIS (Link.) Lev.

On dead wood, Adjuntas (Sintenis) (76).

HYMENOCHÆTE RUBIGINOSA (Schrad.) Lev.

On dead wood, El Duque, Río Piedras.

HYMENOCHÆTE SALLEI Berk.

On dead wood, Espinosa.

HYPOCHNUS PALLESCENS (Schw.) Burt.

(*Corticium pallescens* Schw.)

On dead wood, Río Piedras. The one collection cited by Dr. Burt in Ann. Mo. Bot. Garden, vol. 4, no. 3, Sept. 1917, pp. 267-8.

HYPOCHNUS RUBROCINCTUS Ehbg.

On dead wood, Porto Rico (Stevens) (82).

PENIOPHORA CINEREA Fr.

On dead twigs, and branches of *Citrus* spp., and other trees, Pueblo Viejo, Espinosa, Bayamón, Río Piedras, Campo Alegre (48, 89, 96).

PENIOPHORA FLAVIDO-ALBA Cooke.

On dead wood and cane trash, Río Piedras, Vega Baja, Sabana Llana (48, 96).

✓ PENIOPHORA GALACHROA Bres.

On dead wood of *Melia azedarach*, Pueblo Viejo.

PENIOPHORA RAVENELLI Cooke.

On dead wood, Río Piedras.

SEPTOBASIDIUM LILACINUM Burt.

On trunks of *Citrus decumana*, growing over lichens and debris, Bayamón, Espinosa (96).

SEPTOBASIDIUM PSEUDOPEDICELLATUM Burt.

On living branches, Mayagüez (Earle). Reported by Dr. Burt in Ann. Mo. Bot. Garden, vol. 3, no. 3, p. 329, fig. 1. (*Thelephoraceæ* of North America, VII.)

SEPTOBASIDIUM SPONGIA (B. & C.) Pat.

Growing over scale insects (*Lepidosaphes beckii*, *Chionaspis citri*) and debris on twigs and branches of *Citrus decumana*, Río Piedras, Espinosa, Pueblo Viejo, Campo Alegre, Garrochales, Vega Baja, Bayamón (94, 96).

STEREUM ALBO-BADIUM Schw.

On dead citrus wood, Vega Baja, Espinosa (96).

STEREUM CAPERATUM Berk & Mont.

On dead wood of *Inga laurina* and other trees, Río Piedras, Manatí.

STEREUM COFFEARUM B. & C.

On dead citrus twigs, Río Piedras (96).

STEREUM ELEGANS Meyer.

On dead wood, Mayagüez (López).

STEREUM FASCIATUM Schw.

On dead wood, Río Piedras, Bayamón, El Yunque, Coquerío.

STEREUM LOBATUM Fr.

On dead wood, Río Piedras, San Patricio (Sintenis) (76).

STEREUM PAPYRINUM Mont.

On dead wood, Espinosa.

STEREUM STRUMOSUM Fr.

On dead wood, Bayamón.

STEREUM TUBERCULOSUM Fr.

On dead wood, Río Piedras.

STEREUM UMBRINUM B. & C.

On dead wood, Río Piedras.

THELEPHORA MULTIFIDA Klotzsch.

Reported from the Schwanecke collection (50).

THELEPHORA SERICELLA B. & C.

On soil, Río Piedras, Martín Peña, Espinosa.

TREMELLODENDRON SIMPLEX Burt.

On soil, in cane field. Described in Ann. Mo. Bot. Garden, vol. 2, no. 4, pp. 742-3, from collection by Johnston (48).

HYDNACEÆ.

HYDNUM MULTIFIDUM (Klotzsch) P. Henn.

Reported from the Sintenis collection (76), on dead wood, Adjuntas.

HYDNUM SACCHARI Spreng.

On dead cane trash, Río Piedras (48).

IRPEX DISCOLOR Berk.

On rotten wood, Río Piedras.

IRPEX FARINACEA Fries.

(*Cerrenella farinacea* [Fries.] Murrill.)

(*Poria portoricensis* Fries.)

Reported from Porto Rico (65).

IRPEX FLAVUS Klotsch.

Reported from the Sintenis collection (76).

IRPEX LACTEUS Fries.

(*Irpiciporus lacteus* [Fries] Murrill.)

On dead wood, Bayamón, Río Piedras, Pueblo Viejo (65, 82).

ODONTIA SACCHARI Burt.

On *Saccharum officinarum*, Río Piedras (13, 48, 105).

ODONTIA SACCHARICOLA Burt.

On *Paspalum* sp., Río Piedras.

Saccharum officinarum, Río Piedras, Canóvanas, Cambalache, Camuy (13, 48, 105).

ODONTIA WRIGHTII (B. & C.) Pat.

On dead wood, El Duque.

POLYPORACEÆ.

DÆDALEA REPANDA Pers.

(*Dadalea amanitoides* Beauv.)

On dead wood, El Yunque, Santurce, Río Piedras, Moca, Juncos, Mameyes, Vega Baja, Martín Peña, Espinosa; Mona (12), Monte Alegre, Cabo Rojo (Stevens) (82). Reported from the Sintenis collection (76) as *Trametes elegans* (Spr.) Fr.

FAVOLUS BRAZILIENSIS Fr.

(*Hexagona Wilsonii* Murrill.)

(*Hexagona dadalea* [Link] Murrill.)

On dead wood, El Duque, Aibonito, Mameyes; Monte Alegre, (Stevens) (62, 82). Reported from the Sintenis collection (76) as *Favolus hispidulus* Berk.

FAVOLUS PÓRTORICENSIS (Murr.) Sacc.

(*Hexagona portoricensis* Murrill.)

Reported and named from Porto Rico by Murrill (62, 65).

FAVOLUS PSEUDOPRINCEPS (Murr.) Sacc.

(*Hexagona pseudoprinceps* Murrill.)

On dead wood, Carmelita (Earle) (61, 62).

FOMES AUSTRALIS Fr.

(*Fomes fasciatus* Lev.)

(*Elvingia tornata* [Pers.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, Martín Peña. El Duque; Monte Alegre (Stevens) (82). Reported as *Ganoderma australe* (Fr.) Pat. from the Sintenis collection (76).

FOMES BADIUS Berk.

(*Fulvifomes Underwoodii* Murrill) (65).

(*Pyropolyporus Underwoodii* Murrill.)

On dead wood, Palo Seco (62).

FOMES CALCITRATUS Berk & Curt.

(*Fulvifomes calcitratus* [Berk & Curt.] Murrill.)(*Pyropolyporus calcitratus* [Berk. & Curt.] Murrill.)

On dead wood. Col. N. Y. Bot. Garden (62, 65).

FOMES DEPENDENS Murrill.

(*Fulvifomes dependens* Murrill.)(*Pyropolyporus dependens* Murrill.)

On dead wood and sometimes as a cause of heart rot of hard-wood trees, Vieques (Shafer); Mona Island (Britton) (12, 82, 102).

FOMES EXTENSUS Lev.

(*Fulvifomes extensus* [Lev.] Murrill.)(*Pyropolyporus extensus* [Lev.] Murrill.)

On dead wood, Pueblo Viejo.

FOMES IGNIARIUS (L.) Fr.

(*Pyropolyporus igniarius* [L.] Murrill.)Reported from the Sintenis collection (76). Probably *Fomes extensus*.

FOMES LAMÆNSIS Murrill.

On dead wood, Martín Peña.

FOMES LIGNEUS (Berk.) Cooke.

Reported from the Sintenis collection (76).

FOMES LIGNOSUS Klotzsch.

(*Fomes auberianus* [Mont.] Murrill.)

On dead wood, Mameyes, El Duque, Pueblo Viejo, Río Piedras; Mayagüez (López); Maricao (Stevens) (82).

FOMES LINTEUS Berk.

On dead wood, Río Piedras. Determined by Dr. Murrill as *Fomes* (*Fulvifomes*) *extensus*.

FOMES MARMORATUS Berk.

(*Elvingia fasciata* [Sw.] Murrill.)(*Elvingiella fasciata* [Sw.] Murrill.)(*Fomes fasciatus* Schwartz.)On dead wood, Naguabo, Moca, Bayamón, Aibonito, Río Piedras, Manatí, Fajardo, Mameyes, Comerío; Monte Alegrillo (Stevens) (82). Reported from the Sintenis collection (76) as *Fomes fomentarius* (L.) Fr.

LASCHIA PEZIZOIDES B. & C.

On dead wood, Río Piedras.

LENZITES STRIATA Fr.

(*Glæophyllum striatum* [Fr.] Murrill.)

On dead wood, Río Piedras, Humacao, Bayamón, Caguas, Ca-
muy, Espinosa, Santana; Mona Island (12); Vieques (Sha-
fer) (82, 102).

MERULIUS BYSSOIDES Burt.

On soil and cane trash, Río Piedras (48). Described by Dr.
Burt in Ann. Mc. Bot. Garden, v. 4, no. 4, Nov. 1917, pp.
358-9, fig. 1. Collection by J. R. Johnston.

MERULIUS RUGULOSUS B. & C.

(*Corticium saccharinum* B. & C.)

On dead wood, Bayamón.

MERULIUS SULPHUREUS Burt.

On rotten wood and bark, Bayamón.

POLYPORUS AMBOINENSE Fr.

Reported as *Ganoderma amboinense* (Lam.) Pat. from the Sintenis collection (76). "The determination is in all probability wrong. Known only from the Philippines, although applied to many tropical plants, related to *Polyporus lucidus*."—Lloyd.

POLYPORUS ANEBUS Berk.

On dead wood, Mameyes.

POLYPORUS BLANCHETIANUS Mont.

Reported from the Sintenis collection (76). Given by Lloyd as
practically a form of *P. varius*.

POLYPORUS CHAPERI Pat.

(*Amauroderma Chaperi* [Pat.] Murrill.)

On dead wood, Santa Isabel (65).

POLYPORUS CONCHOIDES Mont.

Reported as *Glæoporus conchoides* Mont. from the Sintenis col-
lection (76).

POLYPORUS CONCRESCENS Ment.

(*Rigidoporus evolutus* [Berk. & Curt.] Murrill)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS DEALBATUS B. & C.

(*Microporellus dealbatus* [B. & C.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

POLYPORUS DISTORTUS Schw.

(*Abortiporus distortus* [Schw.] Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS FIMBRIATUS Fr.

Reported from the Sintenis collection (76) as *P. Warmingii* Berk.

POLYPORUS FLAVESCENS Mont.

(*Tyromyces albogilvus* [Berk. & Curt.] Murrill.)

On dead trunks. Coll. N. Y. Bot. Garden (65).

POLYPORUS FLAVIPORUM Murrill.

(*Amuroderma flaviporum* Murrill.)

On dead wood, Cortada.

POLYPORUS FRUCTICUM Berk.

(*Inonotus corrosus* Murrill.)

On dead wood, Mona Island (Britton); Vieques (Shafer) (12, 65, 82, 102).

POLYPORUS FULVELLUS Bres.

(*Ganoderma nitidum* Murrill.)

On dead wood, Garrochales, Río Piedras.

POLYPORUS GILVUS Schw.

(*Hapalopilus gilvus* [Schw.] Murrill.)

On dead wood, Pueblo Viejo, Moca, Aibonito, El Yunque, Vega Baja, El Duque, Río Piedras; Maricao (Stevens); Vieques (Shafer) (82, 102). Reported from Cayey in the Sintenis collection (76) as a variety, *scruposus*.

POLYPORUS GRACILIS Kl.

(*Polyporus obolus* Ellis & Macbr.) (65).

(*Polyporus Cowellii* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYPORUS HAVANNENSIS Berk.

(*Trametes havannensis* [Berk.] Murrill.)

On dead wood, Porto Rico (Stevens) (82). Probably referable to *Polyporus subfulvus* Berk.

POLYPORUS HEMILEUCUS Berk & Curt.

Reported from the Sintenis collection (76). Referable to *P. supinus*, or possibly *P. modestus*.

POLYPORUS LEPREURII Mont.

Reported from the Sintenis collection (76).

POLYPORUS LICNOIDES Mont.

(*Hapalopilus licnoides* [Mont.] Murrill.)

On dead wood, Fajardo, Martín Peña, El Duque, Palo Seco, Co-merío, Río Piedras; Maricao (Stevens) (82).

POLYPORUS LUCIDUS Leys.

Reported as *Ganoderma lucidum* (Leys.) Pat. from the Sintenis collection (76).

POLYPORUS MARBLEÆ Murrill.

On dead wood, Utuado. Coll. N. Y. Bot. Garden (65).

POLYPORUS MODESTUS Kze.

On dead wood, Fajardo (Schwanecke) (50).

POLYPORUS NIVOSELLUS Murrill.

(*Tyromyces nivosellus* Murrill.)

Reported from Porto Rico in North Amer. Flora (62, 65).

POLYPORUS OBTUSUS Berk.

(*Spongipellis unicolor* [Schw.] Murrill.)

Reported from Humacao in the Schwanecke collection (50) as *Polyporus unicolor* Schw.

POLYPORUS PAPYRACEUS Fries.

Reported in North American Flora. Probably *Polystictus membranaceus* (62).

POLYPORUS PERZONATUS Murrill.

(*Ganoderma perzonatum* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

POLYPORUS PUSILLUS Persoon.

(*Favolus rhipidium* Berk.)

(*Favolus subpulverulentus* Berk & Curt.)

(*Inonotus pusillus* [Pers.] Murrill.)

On dead and rotten wood. Pueblo Viejo. Martín Peña. Río Piedras. Comerío: Monte Alegre (Stevens) (82). Also reported from the Sintenis collection (76).

POLYPORUS RUGULOSUS Lev.

Reported from Cayey in the Sintenis collection (76). "Very close to and practically the same plant as *Polyporus zonatus* Berk."—Lloyd.

POLYPORUS SEMILACCATUS Berk.

On dead wood, Palo Seco.

POLYPORUS SUBFULVUS Berk.

(*Coriolus ochroinctellus* Murrill.)

On dead wood, Espinosa, Bayamón, Guaynabo. Río Piedras (65, 82).

POLYPORUS SULPHUREUS (Bull.) Fr.

(*Laetiporus speciosus* [Batt.] Murrill.)

Reported from Lares in the Sintenis collection (76).

POLYPORUS SUPINUS Swartz.

(*Fomitella supina* [Sw.] Murrill.)

On dead wood. Arecibo. Santana, Moca, El Duque.

POLYPORUS TRICHOLOMA Mont.

On dead wood, Martín Peña, Río Piedras, El Duque, Espinosa; Humacao (Schwanecke) (50).

POLYPORUS VARIOPORUS Murrill.

On dead sticks (62, 65).

POLYPORUS VINOUS Berk.

(*Nigroporus vinosus* [Berk.] Murrill.)

On dead wood, Sierra de Naguabo.

POLYPORUS ZONALIS Berk.

(*Rigidoporus surinamensis* [Miq.] Murrill.)

On dead wood, Río Piedras, Espinosa, Guaynabo, Fajardo, Palo Seco; El Alto de la Bandera, Monte Alegre (Stevens) (82).

POLYSTICTUS ARMENICOLOR Berk & Curt.

(*Coriolus armenicolor* [Berk. & Curt.] Pat.)

On dead wood, Río Piedras (65).

POLYSTICTUS CROCATUS Fries. (?).

(*Coriolopsis crocata* [Fries.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

POLYSTICTUS DRUMMONDII Klotzsch.

(*Coriolus Drummondii* [Klotzsch] Pat.)

On dead wood, Bayamón; Mayagüez (Stevens) (82).

POLYSTICTUS ELONGATUS Berk.

On dead wood, Río Piedras. Also reported from the Sintenis collection (76).

POLYSTICTUS FULVOCINEREUS Murrill.)

(*Coriolopsis fulvocinerea* Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS HÄDINUS Berk.

(*Coriolus hadinus* [Berk.] Pat.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYSTICTUS HIRSUTUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

Reported from Barranquitas (Sintenis) (76).

POLYSTICTUS HIRTELLUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

On dead wood, Martín Peña, Río Piedras.

POLYSTICTUS HOLCLICKII Murrill.

(*Coriolus Hollickii* Murrill.)

On dead wood, Monte Alegre (Stevens) (65, 82).

POLYSTICTUS MAXIMUS Mont.

(*Coriolus maximus* [Mont.] Murrill.)

On dead wood, Moca, Martín Peña, Manatí, Espinosa, Río Piedras; Vieques (Shafer); Cabo Rojo (Stevens) (82, 102).

POLYSTICTUS MEMBRANACEUS Sw.

(*Coriolus membranaceus* [Sw.] Pat.)

On dead wood, Bayamón, Martín Peña, Espinosa, Pueblo Viejo, El Yunque, Comerío; Monte Alegre (Stevens) (82). Reported from the Sintenis collection (76).

POLYSTICTUS OCCIDENTALIS Klotzsch.

(*Coriolopsis occidentalis* [Kl.] Murrill.)

On dead wood, Martín Peña, Fajardo, Palo Seco, Río Piedras, El Yunque, Vega Baja, Barceloneta, Bayamón, Guaynabo; Barceloneta (Sintenis, 76) (48, 82, 96).

POLYSTICTUS PAVONIUS Hook.

(*Coriolus pavonius* [Hook.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, El Yunque, Fajardo (82).

POLYSTICTUS PINSITUS Fries.

(*Coriolus pinsitus* [Fries] Murrill.)On dead wood, Río Piedras, Martín Peña, Bayamón, Espinosa, Campo Alegre, Barceloneta, Garrochales, Mameyes, Vega Alta, El Yunque; Utuado, Monte Alegre, Vega Baja. (Stevens) (82, 96); Mona (12); Vieques (Shafer) (102). Reported from Utuado in the Sintenis collection (76) as *P. umbonatus* Fr.

POLYSTICTUS POLYZONUS Pers.

On dead wood, Río Piedras.

POLYSTICTUS RIGENS Sacc. & Cub.

(*Coriolopsis rigida* [Berk. & Mont.] Murrill.)

On dead wood, Sardinera (12, 82); Río Piedras, Martín Peña, Pueblo Viejo, El Duque, Campo Alegre, El Yunque, Santana, Arecibo, Bayamón.

POLYSTICTUS SANGUINEUS L.

(*Pycnoporus sanguineus* [L.] Murrill.)

On dead wood, Martín Peña, Río Piedras, El Yunque, Sierra de Naguabo, Espinosa, Palo Seco, Dorado; Añasco (Stevens) (82). Also reported from the Sintenis and Schwanecke collections (50, 76), Mona Island (12), and Vieques (102).

POLYSTICTUS SINUOSUS B. & C.

(*Poria sinuosa* Fr.)

On dead cane stalks and rotten wood, Río Piedras, Gurabo, Bayamón (48, 53). Both the pileate and resupinate forms occur.

POLYSTICTUS SPATHULATUS Hook.

(*Polyporus multiformis* Mont.)(*Coltricia spathulata* [Hook.] Murrill.)

On dead wood, Martín Peña.

POLYSTICTUS STEREINUS B. & C.

(*Rigidoporus Liebmanni* [Fries.] Murrill.)

On rotten wood, El Yunque (62).

POLYSTICTUS SUBGLABRESCENS Murrill.

(*Coriolopsis subglabrescens* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

POLYSTICTUS VELUTINUS Fr.

Reported from Humacao in the Schwancke collection (50).

POLYSTICTUS VERSICOLOR L.

(*Coriolus versicolor* [L.] Quel.)

On dead wood, Mayagüez (Stevens) (82).

PORIA AURANTIOTINGENS Ellis & Macbr.

(*Tinctoporia aurantiotingens* [Ell. & Macbr.] Murrill.)

On dead wood, Río Piedras, El Duque.

PORIA VINCTA Berk.

On dead wood, Río Piedras.

TRAMETES CUBENSIS (Mont.) Sacc.

On dead wood, Espinosa, El Duque, Martín Peña.

TRAMETES HYDNOIDES Sw.

(*Pogonomyces hydnoides* [Sw.] Murrill.)

On dead wood, Martín Peña, Moca, Espinosa, Caguas, Arecibo;

Mona Island (12); Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

TRAMETES NIVOSA (Berk.) Murrill.

On dead cane stalks, Río Piedras (48).

TRAMETES SUBMURINA Murrill.

On rotten wood, Espinosa, Palo Seco, Río Piedras, Santurce.

TRAMETES TAYLORI Murrill.

(*Coriolopsis Taylori* Murrill.)

On dead wood, Naguabo, Vega Baja (62, 65).

AGARICACEÆ.

AGARICUS JOHNSTONII Murrill.

On humus, Río Piedras (68).

AMPHALIA LAPIDESCENS (Hor.) Cohn & Schrot.

Reported from the Sintenis collection (76).

ATYLOSPORA BYSSINA Murrill.

On dead wood, Río Piedras (67).

CAMPANULARIS CAMPANULATUS (L.) Earle.

On manure. Río Piedras (Fink.) (67).

CAMPANULARIS SOLIDIPES (Peck) Murrill.

On horse manure, Río Piedras; Utuado (Britton and Cowell); Mayagüez, Aibonito (Fink) (67).

CORTINARIUS SINTENISII P. Henn.

Reported from the Sintenis collection (76).

GALERA TENER (Schaeff.) Quel.

On humus, Río Piedras.

GYMNOPILUS EARLII Murrill.

On dead wood, Mayagüez (Thomas and López).

GYMNOPUS TENUIPES (Schw.) Murrill.

On dead wood, reported in N. Amer. Flora (66).

HELIOMYCES SUBAVELLANEUS Murrill.

On dead wood, Río Piedras (Shafer) (64).

LENTINULA DETONSA (Fries) Murrill.

On dead wood. Coll. N. Y. Bot. Garden (63).

LENTINUS CRINITUS (L.) Fries.

On dead wood and cane stalks, Río Piedras, Pueblo Viejo, Moca, Campo Alegre, Martín Peña, El Duque; Cayey (Stevens) (48, 82). Also reported from Mona Island (12), and from the Sintenis collection (76). Recorded in the Schwanecke collection as *Lentinus nigripes* Fr. (50).

LENTINUS HIRTUS (Fries) Murrill.

On dead wood, Río Piedras, Espinosa, Pueblo Viejo, Caguas, El Yunque, Gurabo, El Duque, Mameyes (63, 82).

LENTINUS LEPIDEUS Fries.

(*Lentodium squamosum* [Huds.] Murrill.)

On rotten wood, Río Piedras (63, 82).

LENTINUS SCYPHOIDES Pat.

On dead wood, Río Piedras.

LENTINUS STRIGELLUS Berk & Curt.

On dead wood. Col. N. Y. Bot. Garden (63).

LENTINUS STRIGOSUS (Schw.) Fries.

On dead wood, Moca, Río Piedras, Santana; Cabo Rojo (Stevens); Vieques (82, 102). Also from the Sintenis collection (76) as *L. Lecomtei* Fr.

LENTINUS SUBSCYPHOIDES Murrill.

On dead wood, Río Piedras (64).

LENTINUS VELUTINUS Fries.

On dead wood, Santana.

LEPIOTA CEPÆSTIPES (Sow.) Quel.

On humus, Martín Peña, Río Piedras.

LEPIOTA CRETACEA (Bul.) Murrill.

On soil in cane fields, Río Piedras.

LEPIOTA MORGANI Peck.

(*Chlorophyllum molybdites* Mass.)

On humus, Bayamón, Río Piedras.

LEPIOTA RUBROTINCTA Pk. (?).

Reported by Stevens (82).

MARASMIUS BERTEROI (Lev.) Murrill.

On trunks of trees (64).

MARASMIUS BORINQUENSIS Stevenson.

On dead sugar-cane stalks, Río Piedras (48).

MARASMIUS CINEREIVALBUS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS HIORAMI Murrill.

On dead and dying sugar-cane leaves and roots, Río Piedras (48, 64).

MARASMIUS JOHNSTONII Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS OBSOLETUS Murrill.

On dead wood, Río Piedras (64).

MARASMIUS PALLESCENS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PAUCIFOLIUS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PECKII Murrill.

On dead leaves (64).

MARASMIUS PORTORICENSIS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS SACCHARI Wakker.

On *Andropogon bieornis*, Río Piedras.

Bromelia pinguin, Río Piedras.

Panicum barbinode, Cambalache, Patillas.

Saccharum officinarum, Ponce, Fortuna, Río Piedras, Canóvanas, Mameyes (22, 23, 38, 40, 41, 48, 59, 91, 94, 105).

MARASMIUS SYNODICUS (Kunze) Fries.

On dead leaves and grass, Río Piedras (64).

MARASMIUS WILSONII Murrill.

On dead leaves, Luquillo (Wilson) (64).

MELANOTUS FUMOSIFOLIUS Murrill.

On rotten wood, Utuado (Britton and Marble) (67).

OMPHALOPSIS EUSPEIREA (Berk. & Curt.) Murrill.

On dead wood (66).

PANELLUS EUGRAMINUS (Mont.) Murrill.

On dead wood, El Duque, Río Piedras.

PLICATURA OBLIQUA (B. & C.) Murrill.

On dead wood, Bayamón, Río Piedras, El Yunque, Martín Peña.

POLYMARASMIUS SARMENTOSUS (Berk.) Murrill.

On dead wood (64).

PSATHYRELLA MINUTULA (Schaeff.) Murrill.

(*Psathyrella disseminata* Quel.)

On humus, El Yunque, Río Piedras.

PSATHYRELLA STEVENSONII Murrill.

On garden soil, Río Piedras (67).

SCHIZOPHYLLUM COMMUNE Fr.

(*Schizophyllum alneum* [L.] Schroet.)

(*Schizophyllum alneus* [L.] Schröet.)

On *Citrus decumana*, Río Piedras. Fruit rot, and wood rot of trunk and limbs (89, 96).

Ipomoea batatas, Río Piedras.

Saccharum officinarum (dead and dying stalks), Río Piedras, Plazuela (20, 38, 48, 105). Common everywhere on dead wood, Yabucoa, Carolina, Bayamón; Maricao, Cataño, El Gigante (Stevens) (82); Mona Island (12); Vieques (102); Adjuntas (Sintenis) (50, 76); Santurce Heller) (19).

SCYTINOTUS DISTANTIFOLIUS Murrill.

On dead wood, grass and sugar-cane leaves, Río Piedras (48, 64).

STROPHARIA CUBENSIS Earle.

On manure, various localities (Britton and Marble) (Fink) (68)

PHALLACEÆ.

CLATHRUS CANCELATUS Tournef.

Porto Rico (Sintenis) (76). Probably should be referred to the following species.

CLATHRUS CRISPUS Turpin.

On garden soil, Santurce.

LATERNEA COLUMNATA Nees.

Sintenis, from Porto Rico. Reported (76) as *Clathrus columnatus*.

LATERNEA TRISCAPA Turpin.

On garden soil, Río Piedras.

MUTINUS CANINUS (Huds.) Fr.

Reported by Johnston at Río Piedras.

PHALLUS INDUSIATUS Vent.

On soil, Mayagüez (Brandes); Río Piedras, Martín Peña; Adjuntas (Sintenis) (76) as *Dictyophora phalloidea*.

LYCOPERDACEÆ.

GEASTER MIRABILIS Mont.

On forest soil, Martín Peña; Adjuntas (Sintenis) (76).

GEASTER SACCATUS Fr.

On humus, Río Piedras.

GEASTER VELUTINUS Morgan.

On humus, Río Piedras.

LYCOPERDON ALBIDUM Cooke.

On dead cane stalks and debris, Cortada, Río Piedras (48, 52).

LYCOPERDON CRUCIATUM Rostk.

On soil and rotten wood, Río Piedras, Palo Seco.

LYCOPERDON PUSILLUM Batsch.

On humus and cane trash, Pueblo Viejo, Río Piedras (48).

LYCOPERDON PYRIFORME Schaeff.

(*Lycoperdon rubellum* Beck.)

On soil, Río Piedras, Barceloneta (48).

TYLOSTOMA EXASPERATUM Mont.

On dead wood, Lares (Sintenis) (76).

NIDULARIACEÆ.

CYATHUS EARLEI Lloyd.

On dead wood, Sabana Llana, Palo Seco.

CYATHUS PALLIDUS Berk.

On dead wood, Martín Peña, Río Piedras.

CYATHUS PÆPPIGII Tulasne.

On dead cane stalks and dead wood, Río Piedras, Fajardo (48).

CYATHUS STERCOREUS Schw.

On manure, Río Piedras.

CYATHUS STRIATUS Hudson.

(*Nidularia striata* Bull.)Reported from the Schwanecke collection (50), but would doubtless be found to be *C. pæppigii* if reexamined.

SPHÆROBOLUS STELLATUS Tode.

On cane trash and rotten wood. Río Piedras (48).

FUNGI IMPERFECTI.

PHOMATACEÆ.

ACTINONEMA ROSÆ (Lib.) Fr.

On leaves of *Rosa* sp., Río Piedras (94).

ASCOCHYTA NICOTIANÆ Pass.

On *Nicotiana tabacum* (8).

CINCINNOBOLUS CESATII De By.

On *Erysiphe polygoni* (?) on *Cassia tora*, San Germán (Stevens) (82).

CRYPTOSTICTIS HYSTEROIDES Fuckel.

On dead leaves, Río Piedras.

CYTOSPORA SACCHARI Butler.

On dead and dying sugar-cane leaf-sheaths and stalks, Río Piedras, Carolina, Fajardo (48, 84, 105).

DARLUCA FILUM (Biv.) Cast.

On *Kuehneola gossypii* on *Gossypium barbadense* (Stevens).*Puccinia cannae* on *Canna* sp. (Stevens).*Puccinia eleocharidis* on *Eleocharis* sp., Mayagüez (Stevens).*Puccinia gouanix* on *Gouaniá*, Utuado (Stevens).*Puccinia Huberi* on *Panicum trichoides*, Jayuya (Stevens).*Puccinia lantanae* on *Lantana involucrata*, Quebradillas.*Puccinia polygoni-amphibii* on *Persicaria punctata*, Río Piedras.

DARLUCA FILUM (Biv.) Cast.—Continued.

On *Puccinia rivinæ* on *Rivina humilis*, Desechoe (Stevens).

Puccinia substriata on *Eriochloa subglabra*, Mayagüez (Stevens).

Uredo aschynomeneis on *Aeschynomene americana* (Stevens).

Uromyces leptodermus, on *Lasiacis divaricata* and *Panicum barbinode* (Stevens) (82).

Rust (undet.) on *Kyllingia* sp. (Sintenis) (76).

DIPLODIA CACAOICOLA P. Henn.

On *Saccharum officinarum*, Río Piedras, Vieques, Las Monjas, (48, 94, 105).

Theobroma cacao, Mayagüez (20).

DIPLODIA NATALENSIS Evans.

On *Citrus* spp., as a fruit rot, twig blight, and trunk canker, Río Piedras, Garrochales, Palo Seco, Pueblo Viejo, Espinosa, Bayamón, Campo Alegre (29, 58, 84, 89, 94, 96).

DIPLODIA OPUNTIAE Sacc.

On *Opuntia* sp., Guánica (84).

DIPLODIA TUBERICOLA (E. & E.) Taub.

On *Ipomoea batatas*, Río Piedras.

PHOMA DESTRUCTIVA Plowr.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

PHOMA FOURCROYÆ Thüm.

On *Furcrea tuberosa*, Espinosa, Bayamón.

PHOMOPSIS CITRI Faw.

On *Citrus decumana*, Trujillo Alto, Bayamón, Palo Seco (89, 96).

Citrus sinensis, Bayamón (89, 96).

PHOMOPSIS VEXANS (Sacc. & Syd.) Harter.

On *Solanum melongena*, Río Piedras (90, 94).

PHYLLOSTICTA ADIANTICOLA Young.

On *Adiantum tenerum*, Río Piedras, Camuy; Manatí, Utuado, Quebradillas (Stevens) (103).

PHYLLOSTICTA APII Hals.

On *Apium graveolens*, Río Piedras.

PHYLLOSTICTA ARALIANA Young.

On *Dendropanax arboreum*, Maricao (Stevens) (103).

PHYLLOSTICTA BATATAS E. & M.

On *Ipomoea batatas*, Río Piedras (90).

PHYLLOSTICTA BIXINA Young.

On *Bixa orellana*, Bayamón, Espinosa, Río Piedras; Maricao, San Germán, Rosario, Mayagüez, Coamo, Añasco, Adjuntas (Stevens) (103).

PHYLLOSTICTA BORINQUENSIS Young.

On *Helicteres jamaicensis*, Palo Seco, Martín Peña; San Germán (Stevens) (103).

PHYLLOSTICTA CISSICOLA Speg.

On *Cissus sicyoides*, Río Piedras: Vega Baja, Jájome Alto (Stevens) (103).

PHYLLOSTICTA CITRULLINA Chester.

On *Cucurbita melo*, Río Piedras (90).

PHYLLOSTICTA CLUSIÆ Stevens.

On *Clusia rosea*, Maricao (Stevens) (82).

PHYLLOSTICTA COCCOLOBÆ E. & E.

On *Coccoloba uvifera*, Mona Island (Stevens) (103).

PHYLLOSTICTA COLOCASIAE Höhnel.

On *Dieffenbachia seguine*, Monte de Oro (Stevens) (90, 103).

PHYLLOSTICTA COLOCASICOLA Höhnel.

On *Colocasia* sp., Caguas (Stevens) (103).

PHYLLOSTICTA COMMELINICOLA Young.

On *Commelina nudiflora*, Río Piedras, Trujillo Alto; Hormigueros (Stevens) (103).

PHYLLOSTICTA CUCURBITACEARUM Sacc.

On *Cucumis sativus*, Río Piedras (90).

PHYLLOSTICTA DIVERGENS Sacc.

On *Albizia lebbeck*, Porto Rico (Stevens) (103).

PHYLLOSTICTA ERYTHRINICOLA Young.

On *Erythrina micropteryx*, Aibonito; Villa Alba, Jájome Alto, Yauco, Mayagüez (Stevens) (103).

PHYLLOSTICTA EUGENIÆ Young.

On *Eugenia buxifolia*, Mona Island (Stevens) (103).

PHYLLOSTICTA EUPATORICOLA Rab. & Bub.

On *Eupatorium odoratum*, Río Piedras, Sierra de Naguabo; Villa Alba (Stevens) (103).

PHYLLOSTICTA GLAUCISPORA Delaer.

On *Urechites lutea*, Porto Rico (Stevens) (103).

PHYLLOSTICTA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (103).

PHYLLOSTICTA GUAREÆ P. Henn.

On *Guarea irichilioides*, Aguas Buenas (Stevens) (103).

PHYLLOSTICTA HORTORUM Speg.

See *Phomopsis vexans*.

PHYLLOSTICTA HYBISCINA E. & E.

On *Abutilon umbellatum*, Mona Island (Stevens) (82).

PHYLLOSTICTA IPOMÆÆ Ell. & Keller.

On *Exogonium repandum*, Manatí, Mayagüez, Río Piedras, Dos Bocas (Stevens) (103).

PHYLLOSTICTA LANTANÆ Stevens.

On *Lantana odorata*, Desecheo, Mona, Utuado, Guánica (Stevens) (82).

PHYLLOSTICTA MOMISIANA Young.

On *Momisia iguanaca*, Coamo (Stevens) (103).

PHYLLOSTICTA MACULICOLA Hals.

On *Cordyline terminalis*, Río Piedras, Sabana Llana.

PHYLLOSTICTA PANDANICOLA Young.

On *Pandanus* sp., Santurce (Stevens) (103).

PHYLLOSTICTA PANICI Young.

On *Panicum maximum*, Río Piedras; Coamo, Martín Peña (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII Young.

On *Pithecolobium unguis-cati*, Desecheo, Yauco (Stevens) (103).

PHYLLOSTICTA PITHECOLOBII var. MONENSIS Young.

On *Pithecolobium unguis-cati*, Mona Island (Stevens) (103).

PHYLLOSTICTA PORTORICENSIS Young.

On *Croton lucidus*, Guánica (Stevens) (103).

PHYLLOSTICTA SACCHARI Speg.

On *Saccharum officinarum*, Gurabo, Río Piedras; Juana Díaz (Stevens) (48, 103).

PHYLLOSTICTA SECHII Young.

On *Sechium edule*, Río Piedras; Mayagüez (Stevens) (103).

PHYLLOSTICTA STEVENSII Young.

On *Triumfetta semitriloba*, Coamo, Villa Alba (Stevens) (103).

PHYLLOSTICTA SUPERFICIALE Stevens.

On *passiflora sexflora*, Ponce, Monte de Oro, El Consumo, Adjuntas, Utuado, El Yunque, Jájome Alto, Maricao, Guayama (Stevens) (82).

SEPTORIA ASIATICA Urb.

On *Centella asiatica*, Vega Baja, San Sebastián (Stevens) (34).

SEPTÓRIA CHELIDONII Desm.

On *Argemone mexicana*, Guayama (Stevens) (34).

SEPTORIA FICI-INDICÆ Vogt.

On *Opuntia dillenii*, Guánica, Santa Isabel (Stevens) (82).

SEPTORIA GUETTARDÆ Garman.

On *Guettarda ovalifolia*, Monte Alegrillo (Stevens) (34).

SEPTORIA LANTANÆ Garman.

On *Lantana camara*, Porto Rico (Stevens) (34).

SEPIHORIA LYCOPERSICI Spieg.

On *Lycopersicum esculentum*, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MICONIÆ Garman.

On *Miconia lavigata*, Las Marías (Stevens) (34).

Miconia impetiolaris, Río Piedras, Sabana Llana (90, 94).

SEPTORIA MIKANÆ Wint.

On *Mikania* sp., El Gigante (Stevens) (82).

SEPTORIA PETITLÆ Garman.

On *Petitia domingensis*, Río Piedras; Cabo Rojo (Stevens) (34).

SEPTORIA PETROSELINI var. APII Br. & Cav.

On *Apium graveolens*, Maricao, El Gigante, Aibonito (Stevens) (82).

SEPTORIA PITYROGRAMME Garman.

On *Pityrogramma calomelanos*, Maricao (Stevens) (34).

SEPTORIA ROSEÆ Desm.

On *Rosa* sp., Aibonito.

VERMICULARIA ATRICHA E. & E.

On *Petiveria alliacea*, Caguas (Millspaugh). Described in *Plantæ Utowanæ*, pub. 43. Field Columbian Museum, Bot. Ser., vol. 2, no. 1.

VERMICULARIA GRAMINICOLA West.

On dead cane stalk, Río Piedras (48).

ZYTHIACEÆ.

ASCHERSONIA ALEYRODIS Webber.

On *Aleyrodicus minimus*, the white fly of *Psidium guajava*, Río Piedras, Caguas, Bayamón, Espinosa; Utuado, Mayagüez, Jayuya (Stevens) (46, 82).

ASCHERSONIA FLAVO-CITRINA P. Henn.

On *Aleyrodicus minimus*, Río Piedras, Martín Peña (46).

ASCHERSONIA CUBENSIS B. & C.

On scale insects on *Citrus* spp., Pueblo Viejo, Espinosa, Bayamón; on *Policourea crocea*, Río Piedras; on *Zamia integrifolia* (Stevens) (82, 89, 96).

ASHERSONIA TURBINATA Beck.

On scale insects, Río Piedras, Vega Baja, Espinosa, Dorado, Pueblo Viejo, Coamo Springs. Host insects occur on a wide range of trees and shrubs, including *Citrus* spp., *Psidium*, *Casearia*, *Zamia*, *Eugenia*, *Erythrina*, etc. (46, 89, 96).

ZYTHIA PHASEOLI Stevens. In mss.

On *Phaseolus adenanthus*, Porto Rico (Stevens).

LEPTOSTROMATACEÆ.

LEPTOTHYRIUM POMI (M. & F.) Sacc.

On *Citrus sinensis*, Bayamón. Found in sterile condition only (89, 96).

MELASMIA COCCOLOBIÆ Stevens.

On *Coccolobis* sp., Maricao (Stevens) (82).

MELASMIA INGÆ Stevens.

On *Inga laurina*, Las Marías (Stevens) (82).

EXCIPULACEÆ.

EPHELIS MEXICANA Fr.

See *Balansia hypoxylon*.

MELANCONIACEÆ.

COLLETOTRICHUM COFFEANUM Noack.

On *Coffea arabica*. Reported by Cook in Tropical Plant Diseases, p. 166 (98).

COLLETOTRICHUM CRADWICKII Bancroft.

On *Theobroma cacao*, Mayagüez (Fawcett) (27).

COLLETOTRICHUM CURVISETUM Stevens.

On *Hura crepitans*, Canóvanas; Añasco, Mayagüez (Stevens) (82).

COLLETOTRICHUM ERYTHIRINÆ E. & E.

On *Pithecolobium unguis-cati*, Coamo, Boquerón, Guánica, Guajibo, Mona, Desecheo (Stevens) (82).

COLLETOTRICHUM FALCATUM Went.

On *Saccharum officinarum*, Río Piedras, Fajardo, Yauco, Canóvanas, Yabucoa, Carolina, Las Monjas, Ponce, Fortuna. For the most part on dead and dying leaves and stalks, but occasionally as a wound parasite of the stalk. (38, 40, 48, 91, 94, 105).

COLLETOTRICHUM GLÆOSPORIOIDES Penz.

On *Citrus* spp., Río Piedras, Pueblo Viejo, Espinosa, Manatí, Bayamón, Sabana Llana, Vega Baja, Santana. Causing leaf spot, fruit spot and rot, tear staining of fruit, and withertip of terminal branches and twigs (15, 23, 26, 89, 94, 96, 98).

Mangifera indica, Río Piedras (23, 89, 94).

COLLETOTRICHUM HIGGINSCANUM Sace.

On *Brassica rapæ*, Río Piedras.

COLLETOTRICHUM LAGENARIUM (Pers.) E. & H.

On *Cucumis sativus*, Río Piedras.

Cucurbita melo, Río Piedras (90).

COLLETOTRICHUM LINDEMUTHIANUM (Sacc & Magn.) Serib.

On *Phascolus vulgaris*, Río Piedras (90, 94).

COLLETOTRICHUM LINEOLA Cda.

On *Holcus halpense*, Sabana Llana.

Holcus sorghum, Trujillo Alto (94).

COLLETOTRICHUM LOBELIÆ Stevens.

On *Lobelia assurgens* var. *Portoricensis*, Maricao (Stevens) (82).

COLLETOTRICHUM NIGRUM E. & H.

On *Capsicum annuum*, Río Piedras. Causing a rot of the fruit (90).

COLLETOTRICHUM OMNIVORUM Hals.

On *Pandanus* sp., Sabana Llana, Río Piedras; Caguas (Stevens) (82).

COLLETOTRICHUM PHILDENDRI P. Henn.

On *Philodendron krebsii*, Arecibo, Lares (Stevens) (82).

COLLETOTRICHUM PHOMOIDES (Sacc.) Ches.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

COLLETOTRICHUM PIPERIS Stevens.

On *Piper umbellatum*, Río Piedras; Caguas (Stevens) (82).

GLÆOSPORIUM HEMEROCALLIDIS E. & E.

On *Hymenocallis expansa*, Bayamón.

GLÆOSPORIUM MANIHOT Earle.

On *Manihot utilissima*, Río Piedras.

Producing a die-back of terminal twigs (90).

GLÆOSPORIUM MELONGENÆ E. & H.

On *Solanum melongena*, Río Piedras (36, 90).

GLÆOSPORIUM MUSARUM Cke. & Mass.

On *Musa paradisiaca*, Río Piedras. Common in all parts of the Island.

GLÆOSPORIUM PIPERATUM E. & E.

On *Capsicum annuum*, Río Piedras (90, 94).
Capsicum frutescens, Pueblo Viejo.

GLÆOSPORIUM PSIDIÆ G. Del.

See *Glomerella cingulata*.

GLÆOSPORIUM RUFOMACULANS (Berk.) Thüm.

See *Glomerella cingulata*.

GLÆOSPORIUM VANILLÆ Cke.

See *Glomerella cingulata*.

GLÆOSPORIUM VIOLÆ B. & Br.

On *Viola* sp., Mayagüez (Stevens) (82).

MELANCONIUM SACCHARI Mass.

On dead and dying sugar-cane stalks and leaf sheaths, Yabu-coa, Río Piedras, Fortuna, Aguadilla, Fajardo, Canóvanas, Carolina, Juncos, Arecibo, Barceloneta, Caguas, Quebradillas, Utuado, Isabela, Añasco, Guánica, Vega Baja, Bayamón, Toa Baja (15, 22, 23, 38, 40, 41, 44, 47, 48, 91, 94, 105).

MELANCONIUM SACCHARINUM (?) Penz. & Sacc.

On *Bambusa vulgaris*, Trujillo Alto.

Cymbopogon citratus, Río Piedras.

Saccharum officinarum, Río Piedras, Mercedita, Fajardo (41, 44, 48, 105).

PESTALOZZIA COCCOLOBÆ E. & E.

On *Coccobolis uvifera*, Boquerón (Stevens) (82).

PESTALOZZIA FUNERA Desm.

On *Acrista monticola*, El Yunque (Stevens).

Chrysobalanus icaco, Santurce (Stevens).

Clusia rosea, Maricao (Stevens).

Hippocratea volubilis, Río Piedras.

Inga vera, Maricao (Stevens).

Musa paradisiaca, Rosario, Barros (Stevens).

Pithecolobium unguis-cati, Mona (Stevens).

Poinciana pulcherrima, Río Piedras; Mayagüez (Stevens) (82).

PESTALOZZIA GUEPINIA Desm.

On *Citrus* spp., Espinosa, Río Piedras (96).

Jambosa jambos, Pueblo Viejo.

Mangifera indica, Trujillo Alto, Río Piedras (94).

PESTALOZZIA PALMARUM Cke.

On *Acrocomia media*, Río Piedras, Espinosa.
Areca catechu, Río Piedras.
Cocos nucifera, Río Piedras, Santurce (39).
Phænix reclinata, Aibonito (94).

MONILIACEÆ.

ACROSTALAGMUS ALBUS Pr.

On *Aphis* sp., on *Hibiscus esculentus*, *Cucumis sativus*, *Solanum melongena*, *Capsicum annum*, *Palicourea* sp., *Eupatorium odoratum*, Río Piedras, Carolina, Comerío.
Corythaica monacha, on *Solanum melongena*, Río Piedras.
Sipha flava, on *Saccharum officinarum*, Río Piedras (46, 89).

ARTIROBOTRYS SUPERBA Cda.

On dead and dying sugar-cane leaves and on cane debris, Río Piedras, Gurabo (48).

ASPERGILLUS FLAVUS Link.

On *Pseudococcus sacchari*, Río Piedras, Patillas, Fajardo, Carolina, Guánica. A strain morphologically not distinguishable is common as a mold of tobacco, cloth, culture media, and other dead plant material. Also isolated from soil (46, 48, 96).

ASPERGILLUS NIGER Van Tiegh.

Isolated from soil. Also occurs occasionally as a citrus fruit rot. and on plant material in damp chambers (48, 96).

ASPERGILLUS ROSEUS Link.

Isolated from soil, Río Piedras.

ASPERGILLUS TERREUS Thom.

On musty tobacco, Porto Rico. Described by Thom in Amer. Jour. of Bot., v. 5, no. 2, Feb. 1918, pp. 85-90, including mention of its occurrence in Porto Rico.

BLASTOTRICHUM MICONIÆ Stevens.

On *Miconia laevigata*, Maricao, Utuado, Aguas Buenas (Stevens) (82).

BOTRYTIS RILEYI Farl.

On *Laphygma frugiperda*, Río Piedras, Guánica (46).

CEPHALOSPORIUM LECANII Zimm.

On *Aspidiotus destructor*, on *Cocos nucifera*, Punta Cangrejos.
Coccus mangifera, on *Mangifera indica*, Río Piedras.
Pseudococcus nipæ, on *Psidium guayaba*, and *Erythrina glauca*, Río Piedras.

CEPHALOSPORIUM LECANII Zimm.—Continued.

On *Saissetia hemispherica* on a wide range of trees and shrubs, Río Piedras, Espinosa, Bayamón, Vega Baja, Comerío, Sabana Llana (46, 96).

DIPLOSPORIUM ALBUM Bon. var. *fungicolum* Stevens.

On *Parodiella cayaponiae* on *Cayaponia* sp., Utuado (Stevens) (82).

METARRHIZIUM ANISOPLLÆ (Metsch.) Sor.

On *Aphodius* sp., *Canthon* sp., *Dsycinetus barbatus*, *Ligyrus tumulosus*, *Metamasius hemipterus*, *Phyllophaga* spp., *Phytalus insularis*, *Strategus titanus*, and a number of undetermined Scarabaeids, an earwig, and a roach, Río Piedras, Guánica, Fajardo, Santa Isabel, Sierra de Naguabo, Añasco (46, 78, 84, 105).

MONILIA SITOPHILA (Mont.) Sacc.

On dead sugar-cane debris after burning, Río Piedras. Common in all parts of the Island. Also observed at base of plants of *Gynerium sagitatum* and *Sabal causiarum* injured by fire (48).

MONOGRAMMIA MICONIÆ Stevens.

On *Miconia* sp., Yabucoa (Stevens) (82).

MONOSPORIUM UREDINICOLUM Stevens.

On *Coleosporium ipomœa* on *Ipomœa batatas* (Stevens) (82).

OIDIUM LACTIS Fres.

Causing acetic fermentation of fruit juices, Río Piedras.

PELICULARIA KOLEROGA Cooke.¹

On *Coffea arabica*, Moca, Mayagüez. Also reported by Fawcett on *C. arabica* var. *columnaris*, *C. abeokuta*, *C. laurentii*, *C. stenophylla*. This species is treated extensively in a number of publications (15, 23, 24, 28, 30, 31, 81, 82).

PENICILLIUM CRUSTACEUM L.

On dead plant material, Río Piedras (96).

PENICILLIUM DIGITATUM (Fr.) Sacc.

On fruit of *Citrus sinensis*, *C. decumana*, and *C. limonis*. Common in all citrus districts of the Island (58, 84, 89, 94, 96).

PENICILLIUM DIVARICATUM Thom.

Isolated from soil, Río Piedras.

PENICILLIUM ITALICUM Wehmer.

On fruit of *Citrus* spp. Not common (89, 96).

¹ See *Corticium koleroga*.

PENICILLIUM LILACINUM Thom.

Isolated from soil, Río Piedras.

PENICILLIUM LUTEUM Zukal.

Isolated from soil, Río Piedras.

PIRICULARIA GRISEA (Cke.) Sacc.

(*Piricularia oryzae* Cav.)

On *Oryza sativa*, Mayagüez (Thomas).

Syntherisma digitata, Río Piedras.

RAMULARIA AREOLA Atkin.

On *Gossypium barbadense* (20).

RAMULARIA COLEOSPORIÆ Sacc.

On *Coleosporium ipomææ* on *Ipomæa batatas* (6).

RAMULARIA CYLINDROSPORIOIDES Stevens. In mss.

On *Piper medium*, Porto Rico (Stevens).

SPICARIA COLORANS.

On *Theobroma cacao*, Fawcett (30).

SPOROTRICHUM GLOBULIFERUM Speg.

On insects (thrips, Drosophilid, leaf hoppers), Río Piedras, Bayamón, Espinosa (94).

TRICHODERMA LIGNORUM (Tode) Harz.

On dead and dying sugar-cane leaves, leaf-sheaths, and stalks, Río Piedras, Cambalache, Naguabo. Common everywhere (48, 94).

TRICHOTHECIUM FUSARIOIDES Stevens.

On *Phyllachora peribebuyensis* on *Miconia* sp., Maricao (Stevens) (82).

VERTICILLIUM HETEROCLADUM Penz.

On insects (undet.), on *Ocotea leucoxylon* and *Nectandra* sp., Río Piedras (46).

DEMATIACEÆ.

ALTERNARIA DIANTHI S. & H.

On *Dianthus* sp., San Juan (94).

ALTERNARIA CITRI Pierce.

On *Citrus sinensis* (fruit), Pueblo Viejo, Bayamón, Río Piedras (84, 89, 96).

ALTERNARIA SOLANI (E. & M.) J. & G.

On *Datura suaveolens*, Barros, Coamo, Aguas Buenas (Stevens) (82).

Solanum tuberosum, Río Piedras.

ARTHRINIUM SACCHARICOLA Stevenson.

On dead sugar-cane leaves, Río Piedras (48).

BASISPORIUM GALLARUM Moll.

On dead stalks and leaves of sugar-cane and other grasses, Juncos, Río Piedras (48).

BRACHYSPORIUM STEMPHYLIODES (Cd.) Sacc.

On *Anona montana*, Mayagüez (Stevens) (82).

CERCOSPORA ACHYRANTHES Syd.

On *Achyranthes aspera*, Guánica, Hormigueros, Bayamón (Stevens) (82).

CERCOSPORA ACROCOMIÆ Stevenson.

On *Acrocomia media*, Río Piedras, Espinosa (94).

CERCOSPORA ALTERNANTHERÆ E. & L.

On *Alternanthera portoricensis*, Yauco, Coamo (Stevens) (82).

CERCOSPORA AMARYLLIDIS Ell. & Ev.

On *Hymenocallis expansa*, Punta Cangrejos; Santurce, Caomo (Stevens) (104).

CERCOSPORA ATRICINCTA H. & W.

On *Crassina elegans*, Espinosa, Río Piedras (89).

CERCOSPORA BERNARDIÆ Stevens.

On *Bernardia bernardia*, Guánica (Stevens) (82).

CERCOSPORA BETICOLA Sacc.

On *Beta vulgaris* in var., Pueblo Viejo, Río Piedras (90, 94).

CERCOSPORA BIFORMIS Petch.

On *Passiflora sexflora*, Mayagüez (Stevens) (82).

CERCOSPORA BIXÆ A. & N.

On *Bixa orellana*, Mayagüez, Lares, Rosario (Stevens) (82).

CERCOSPORA BLOXAMI Beck. & Br.

On *Brassica arvensis*, Río Piedras.

Brassica integrifolia, Río Piedras.

Brassica japonica, Barranquitas.

Brassica juncea, Río Piedras (94).

Brassica Pe-tsai, Río Piedras.

Brassica rapa, Quebradillas, Bayamón (Stevens) (90, 104).

CERCOSPORA BORINQUENSIS Young.

On *Calapogonium orthocarpum*, Río Piedras, Mayagüez (Stevens) (104).

CERCOSPORA BRADBURYÆ Young.

On *Bradburya pubescens*, Río Piedras; Mayagüez, El Yunque,

Dos Bocas, San Germán, Guayama, Jayuya, Hormigueros, Cabo Rojo, Rosario (Stevens) (104).

CERCOSPORA CAJANI P. Henn.

On *Cajanus indicus*, Río Piedras; Aguas Buenas, Aguada, Maricao, Añasco, Dos Bocas, Guayanilla, El Yunque, Hormigueros, Monte de Oro (Stevens) (90, 104).

CERCOSPORA CANESCENS Ell. & Mart.

On *Dolichos lablab*, Río Piedras.

Phaseolus lunatus, Río Piedras.

Phaseolus vulgaris, Río Piedras; Guayanilla (Stevens) (60, 90).

Vigna unguiculata, Garrochales.

CERCOSPORA CAPSICI H. & W.

On *Capsicum annum*, Río Piedras, Pueblo Viejo, Trujillo Alto (90, 94).

CERCOSPORA CARBONACEA Miles.

On *Dioscorea alata*, Vega Alta, Cabo Rojo, Vega Baja, Añasco (Stevens) (60, 61).

CERCOSPORA CASEARLÆ Stevens.

On *Casearia guianensis*, Río Piedras; Rosario, Corozal, Mayagüez (Stevens).

Casearia ramiflora, Villa Alba, Caguas, El Yunque, Quebradillas, Utuado, San Germán, Cataño, Martín Peña, Mayagüez, Aguada, Aguadilla, Maricao, Vega Baja, Bayamón, Naguabo, Jayuya (Stevens).

Casearia sylvestris, Río Piedras, Martín Peña, Sabana Llana; Mayagüez, Coamo, Río Tanamá, Hormigueros, Lajas, Corozal, Quebradillas. Ponce, Monte de Oro, El Yunque (Stevens) (82).

CERCOSPORA CASSAVÆ E. & E.

On *Manihot utilissima*, Dos Bocas (Stevens) (104). Probably the same as *C. Henningsii*.

CERCOSPORA CHAMÆCRISTÆ E. & Keller.

On *Cassia alata*, Dos Bocas. Santurce, Añasco, Mayagüez (Stevens) (104).

Cassia occidentalis, Camuy, Espinosa.

CERCOSPORA CITRULLINA Cke.

On *Citrullus vulgaris*, Punta Cangrejos, Río Piedras, Pueblo Viejo (36, 84, 90).

CERCOSPORA COFFEICOLA B. & C.

(*C. coffeeæ* Zimm.)

On *Coffea arabica*, Espinosa, Río Piedras; Añasco, Maricao (Stevens) (27, 31, 60).

CERCOSPORA CONSPICUA Earle.

On *Cleome spinosa*, Comerío; Mayagüez (Stevens) (21, 104).

CERCOSPORA CRUENTA Sacc.

On *Phaseolus lunatus*. Coll. N. Y. Bot. Garden.

Vigna unguiculata, Río Piedras (90, 94).

CERCOSPORA CUCURBITÆ E. & E.

On *Lagenaria leucantha*, Río Piedras (90).

CERCOSPORA CUCURBITICOLA P. Henn.

On *Cayaponia* spp., Maricao, Rosario (Stevens) (82).

CERCOSPORA DENSISSIMA Speg.

On *Sida* sp., Mona Island (Stevens) (104).

CERCOSPORA FLAGELLARIS E. & M.

On *Phytolacca icosandra*, Maricao (Stevens) (82).

CERCOSPORA GILBERTII Speg.

On *Iresine panniculata*, El Alto de la Bandera (Stevens) (82).

CERCOSPORA GOSSYPIINA Cke.

On *Gossypium barbadense*, Carolina.

CERCOSPORA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (104).

CERCOSPORA HENNINGSII Allesch.

On *Manihot utilissima*, Bayamón, Moca, Pueblo Viejo, Martín Peña; Hormigueros (Stevens) (60, 90, 94).

✓ CERCOSPORA HIBISCI T. & Earle.

On *Hibiscus esculentus*, Río Piedras; Quebradillas, Aguadilla, Cabo Rojo (Stevens) (60, 90, 94).

Hibiscus tiliaceus, Camuy; Rosario, Dos Bocas, Las Marías, Maricao (Stevens) (104).

CERCOSPORA HURÆ Stevens.

On *Hura crepitans*, Mayagüez, Añasco (Stevens) (82).

CERCOSPORA HYDROPIPERIS (Thüm.) Speg.

On *Persicaria punctata*, Río Piedras, Mayagüez; Utuado, Coamo, Corozal, Ciales (Stevens) (104).

CERCOSPORA LACTUCÆ Stevenson.

On *Lactuca sativa*, Río Piedras (90, 94).

CERCOSPORA LEPIDIÆ Peck.

On *Lepidium virginicum*, Espinosa; Mona Island (Stevens) (104).

CERCOSPORA LONGIPES Butler.

On *Saccharum officinarum*, Río Piedras (48, 105).

CERCOSPORA MALACHRÆ Heald & Wolf.

(*Cercospora malachræ* Young).On *Malachra rotundifolia*, Río Piedras; San Sebastián, Ponce, Yauco, Guánica, San Germán, Vega Baja (Stevens) (104).

CERCOSPORA MARICAOENSIS Young.

On *Teramnus uncinatus*, Maricao, Dos Bocas, Cabo Rojo (Stevens) (104).

CERCOSPORA MIKANIACOLA Stevens.

On *Mikania* sp., Utuado, Aguada, Maricao (Stevens) (82).

CERCOSPORA MUCUNÆ Syd.

On *Mucuna pruriens*, Utuado, Dos Bocas, Mayagüez, Añasco, Rosario, Monte Alegrillo (Stevens) (104).*Stizolobium atcrinum*, Río Piedras.*Stizolobium* sp., Río Piedras, Espinoña, Vega Baja.

CERCOSPORA NICOTIANÆ E. & E.

On *Nicotiana tabacum*, Mayagüez, Bayamón, Espinosa, Sabana Llana; Quebradillas, Caguas, Ciales, Dos Bocas (Stevens) (60, 94).

CERCOSPORA ORYZÆ Miy.

On *Oryza sativa* Río Piedras, Canóvanas.

CERCOSPORA PERSONATA (B. & C.) E.

On *Arachis hypogea*, Río Piedras, Pueblo Viejo (15, 20, 90, 94).

CERCOSPORA PISA-SATIVÆ Stevenson.

On *Pisum sativum*, Río Piedras (90).

CERCOSPORA PHYLLITIDIS Hume.

On *Polypodium* sp., Barros (Stevens) (104).

CERCOSPORA PORTORICENSIS Earle.

On *Piper aduncum*, Río Piedras, Camuy; Mayagüez (Heller); Peñuelas, Juana Díaz, Coamo. Añaseo, Ciales, Corozal, Adjuntas. Jájome Alto, Coamo Springs, Arecibo (Stevens) 19, 82).*Piper hispidum*, Bayamón; Maricao, Rosario (Stevens) (104).*Piper peltatum*, Río Piedras.*Piper umbellatum*, Maricao, Arecibo (Stevens) (82).*Piper* sp., Río Piedras, Martín Peña, Palo Seco.

CERCOSPORA RICINELLA Sacc. & Berl.

On *Ricinus communis*, Palo Seco, Naguabo, Espinosa; Jayuya, Yauco, Peñuelas, Utuado, Coamo (Stevens) (82, 94).

CERCOSPORA RIGOSPORA Atks.

On *Solanum nigrum*, Río Piedras.

CERCOSPORA ROSICOLA (Pass.) Sacc.

On *Rosa*, spp., Garrochales, Espinosa, Arecibo, Río Piedras; Maricao (Stevens) (89, 94, 104).

CERCOSPORA SECHLÆ Stevenson. (In ed.)

On *Sechium edule*, Río Piedras, Barceloneta (36, 90).

CERCOSPORA SESAMI Zimm.

On *Sesamum orientale*, Garrochales, Río Piedras (90).

CERCOSPORA SIMULATA E. & E.

On *Cassia alata*. Coll. N. Y. Bot. Garden. Probably the same as *C. chamaecristæ*.

CERCOSPORA STEVENSII Young.

On *Andira jamaicensis*, Dos Boeas (Stevens) (104).

CERCOSPORA THOUINÆ Stevens.

On *Thouinia striata*, Maricao (Stevens) (82).

CERCOSPORA TRICHIOPHILA Stevens.

On *Helicteres jamaicensis*, Peñuelas (Stevens).

Solanum torvum, Mayagüez, Utuado, Vega Baja, Río Tánamá, Monacillo, Manatí, Mona Island (Stevens).

Solanum verbascifolium, Río Piedras; El Gigante, El Alto de la Bandera (Stevens) (82).

CERCOSPORA TRICHOSTIGMÆ Stevens.

On *Trichostigma octandra*, Barceloneta, Río Piedras (Stevens) (82).

CERCOSPORA VAGINÆ Kruger.

On *Saccharum officinarum*, Cambalache, Arecibo, Fajardo, Río Piedras, Los Caños (38, 48, 94, 105).

CERCOSPORA VIGNÆ Racib.

On *Vigna unguiculata*, Río Piedras (84, 90).

CERCOSPORA VIOLÆ Sacc.

On *Viola* sp., Campo Alegre, Río Piedras, Vega Baja (89).

CERCOSPORIDIUM HELLERI Earle.

On *Sphenoclea zeylanica*, Canóvanas; Mayagüez (Stevens) (19, 82).

CERCOSPORIUM BETICOLA (?).

On "beans" as a root rot, P. R. Agri. Exp. Sta. Report 1903.

Given by Cook (Dis. of Tropical Plants, p. 230) as *C. urticola*.

CLADOSPORIUM CALOTROPIDIS Stevens.

On *Calotropis procera*, Guayanilla (Stevens) (82).

CLADOSPORIUM (?) CITRI Mass.

On *Citrus aurantium*, Trujillo Alto, Sabana Llana, Naguabo, Bayamón.

Citrus decumana, Río Piedras, Palo Seco, Sabana Llana, Bayamón, Vega Baja, Espinosa, Manatí, Barceloneta, Garrochales, Santana, Naguabo, Mayagüez, Pueblo Viejo.

Citrus limonia, Bayamón, Pueblo Viejo, Palo Seco, Sabana Llana.

Citrus nobilis, Bayamón.

Citrus sinensis, Trujillo Alto, Bayamón.

An extended bibliography (6, 8, 15, 20, 22, 23, 27, 84, 88, 89, 93, 94, 96, 99).

CLADOSPORIUM FULVUM Cke.

On *Lycopersicum esculentum*, Río Piedras; Cabo Rojo, Utuado, Florida, Caguas (Stevens) (36, 82, 90, 94).

Solanum torvum, Río Piedras.

CLADOSPORIUM GUANICENSIS Stevens.

On *Argemone mexicana*, Palo Seco; Guánica, Coamo (Stevens) (82).

CLADOSPORIUM HERBARUM Link.

On *Canna* sp., Río Piedras; Mayagüez, Aibonito (Stevens).

Canna coccinia, Villa Alba (Stevens).

Canna glauca, Utuado (Stevens).

Canavalia obtusifolia, Boquerón (Stevens) (82).

Dead and dying flowers, leaves and stems of *Zea Mays*, *Sesbania grandiflora*, *Bauhinia* sp., *Saccharum officinarum*, *Solanum melongena*, Bayamón, Río Piedras, Trujillo Alto (48, 96).

CLADOSPORIUM HYPOPHLOEM B. & C.

On *Thouinia* sp., Coll. N. Y. Bot. Garden (Heller).

CLADOSPORIUM MANSONI Cast. and Chalmers.

As a cause of a human skin disease, black ringworm (49).

CLADOSPORIUM MIKANAE Stevens.

On *Mikania* sp., Las Marías (Stevens) (82).

ELLISIELLA PORTORICENSIS Stevens.

On *Clusia rosea*, Arecibo, Desecheo, Lajas, Hormigueros (Stevens) (82).

HAPLOGRAPHIUM ECHINATUM (Riv.) Sacc.

Isolated from soil, Río Piedras.

HAPLOGRAPHIUM PORTORICENSE Stevens. In mss.

On *Canna coccinia*, Porto Rico (Stevens).

HELMINTHOSPORIUM CALADII Stevens.

On *Caladium bicolor*, Guayanabo, Río Piedras; Mayagüez, Manatí, Añasco (Stevens) (82).

HELMINTHOSPORIUM GLABROIDES Stevens.

On *Perisporium portoricense* on *Calophyllum calaba* (Stevens) (82).

HELMINTHOSPORIUM MAYAGUEZENSE Miles.

On *Paspalum conjugatum*, Río Piedras; Mayagüez, Dos Bocas, San Germán, Añasco, Maricao (Stevens) (60, 61).

HELMINTHOSPORIUM RAVENELII Berk & Curt.

On *Sporobolus indicus*, Río Piedras; Jájome Alto, El Alto de la Bandera (Stevens) (82).

HELMINTHOSPORIUM SACCHARI Butler.

On *Saccharum officinarum*, Río Piedras, Camuy, Cambalache, Quebradillas, Barceloneta (48, 94, 105).

HELMINTHOSPORIUM SECHICOLA Stevenson. (In ed.)

On *Sechium edule*, Camuy (90).

HELMINTHOSPORIUM SPICULIFERUM E. & E.

On *Thrinax* sp., Utuado (Stevens) (82).

HELMINTHOSPORIUM STAHLII Stevens.

On *Passiflora foetida*, Mayagüez, Luquillo, Naguabo (Stevens) (82).

HELMINTHOSPORIUM TURCINUM Pass.

On *Zea mays*, Mayagüez, Río Piedras (94).

HELMINTHOSPORIUM VARRONIÆ Stevens.

On *Varronia* sp., Florida (Stevens) (82).

HORMIACTELLA SACCHARI Johnston.

On dead leaves of sugar cane and other grasses, Río Piedras, Naguabo, Ponce, Yauco, Canóvanas, Mameyes, Añasco (48).

MACROSPORIUM PORRI Ell.

On *Allium cepa*, San Juan, Río Piedras.

MICROCLAVA COCCOLOBLÆ Stevens.

On *Coccoloba diversifolia*, Maricao (Stevens) (82).

MICROCLAVA MICONIÆ Stevens.

On *Miconia laevigata*, Aguas Buenas (Stevens) (82).

NAPICLADIUM FUMAGO Speg.

On *Miconia* sp., Arecibo (Stevens) (82).

PASSALORA CECROPIÆ Stevens.

On *Cecropia peltata*, Arecibo (Stevens) (82).

PERICONIA PYCNOOSPORA Fres.

On *Xanthosoma* sp. (*Yautía*). Reported from Mayagüez (7, 8, 15, 90).

PERICONIA SACCHARI Johnston.

On dead and dying sugar-cane leaves, Río Piedras, Fajardo (48).

SEPTONEMA SACCHARI Johnston & Stevenson.

On dead sugar-cane leaves and stalks, Río Piedras (48).

TETRACOCCOSPORIS SACCHARI Stevenson.

On sugar-cane debris, Río Piedras (48).

TETRAPLOA ARISTATA B. & Br.

On dead sugar-cane stalks and leaves, Río Piedras (48).

THIELAVIOPSIS PARADOXA (De Seynes) V. Hohn.

On *Ananas sativus*, causing a fruit rot occurring in all sections of the Island (94).

Cocos nucifera, causing a trunk-bleeding disease (Fawcett, 26).

Saccharum officinarum, Río Piedras, Yabucoa, Canóvanas, Fajardo, Arecibo (23, 26, 38, 40, 41, 44, 48, 87, 91, 94, 105).

TRIPOSPORIUM STELLIGERUM Speg.

On *Anona montana*, Mayagüez (Stevens).

Chiococca alba, Vega Baja (Stevens).

Myrcia deflexa, El Alto de la Bandera (Stevens).

Rudolphia volubilis, Maricao, El Yunque (Stevens).

Winterana canella, Guayanilla (Stevens).

Zamia integrifolia (Stevens) (82).

VERTICICLADIUM GRAMINICOLUM Johnston & Stevenson.

On dead cane leaves, Río Piedras (48).

ZYGOSPORIUM OSCHIOIDES Mont.

On *Pucciniopsis caricae* on *Carica papaya*, Río Piedras (60, 94).

STILBACEÆ.

DENDROGRAPHIUM ATRATUM Massee.

On dead wood, Mameyes.

GIBELLULA ARACHNOPHILA Sacc.

On spiders of the family *Attidae*, Río Piedras, Vega Baja, Espinosa (46).

GRAPHIUM SACCHARI Speg.

On dead sugar-cane stalks, Río Piedras, Gurabo (48).

GRAPHIUM SQUARROSUM Ell. & Langl.

On dead bamboo, Río Piedras.

ISARIA BARBERI Giard.

(Cordyceps Barberi Giard.)

On larvæ of *Diatraea saccharalis*, Río Piedras, Guánica, Santa Isabel, Patillas (46).

ISARIA SAUSSUREI Cooke.

On *Bothriocera* sp., on *Palicourea crocea*, Río Piedras.

ISARIA UMBRINA Pers.

On dead wood, Río Piedras.

ISARIOPSIS GRISEOLA Sacc.

On *Phaseolus lunatus*, Río Piedras; Mayagüez (Thomas).*Phaseolus vulgaris*, Río Piedras, Barceloneta, Camuy; Jayuya, Mayagüez, Dos Bocas (Stevens) (60, 90, 94).

PODOSPORIUM PALLIDA Pat.

On *Meliola amphitricha* on *Randia aculeata*. Coll. N. Y. Bot. Garden.

STILBELLA FLAVIDA Lind.

(Stilbum flavidum Cooke.)

On *Bryophyllum pinnatum*, Maricao (Stevens).*Citrus sinensis*, *Cissus sicyoides*, *Commelina* sp., *Inga vera*, *Mangifera indica* (Fawcett) (31).*Coffea arabica*, Mayagüez; Dos Bocas, Jayuya, Ponce, Monte de Oro, Maricao, El Gigante, Arecibo-Lares (Stevens). Frequently reported by Fawcett and others (6, 8, 15, 20, 23, 24, 26, 30, 31, 81, 82). Also noted by T. C. McClelland on *C. excelsa*, *C. macrocarpa*, *C. perrieri*, *C. robusta*, *C.* sp. var. *Quillou*; and by Fawcett on *C. stenophylla*, *C. arabica* var. *Columnaris*, *C. laurentii* (30).*Elephantopus mollis*, Jayuya, Monte de Oro (Stevens).*Piper macrophyllum*, Monte de Oro (Stevens).*Psychotria uliginosa*, El Alto de la Bandera (Stevens).*Synedrella nodiflora*, Ponce (Stevens) (82).

TUBERCULARIACEÆ.

AEGERITA WEBBERI Faw.

On *Aleyrodius minimus* on *Psidium guayaba*, Río Piedras, Espinosa (46).

EPICOCCUM NEGLECTUM Desm.

On *Cestrum* sp., Cabo Rojo (Stevens) (82).

FUSARIUM CUBENSIS Er. Sm.

On *Musa paradisiaca*, Isabela, Mayagüez, Río Piedras, Moca. Causing a serious trunk rot (10, 11, 32).

FUSARIUM LIMONIS Bri.

On *Citrus decumana* (*C. limonis* root), Espinosa, Garrochales, Bayamón, Pueblo Viejo, Sabana Llana (94, 96).

FUSARIUM RADICICOLA Wollenw.

On *Musa sapientum*. Mentioned by Pratt in *Jour. Agri. Research*, v. 3, no. 9, p. 299, in connection with a study of the fungus on other hosts.

✓ FUSARIUM SOLANI (Mart.) Sacc.

On *Vanilla planifolia*, Mayagüez (Thomas).

ILLOSPORIUM COMMELINÆ Stevens.

On *Commelina longicaulis*, Caguas, Rosario, Las Marías, Guayanilla, Hormigueros (Stevens).

Commelina virginica, Aguada, El Gigante (Stevens) (82).

MICROCERA FUJIKUROI Miy. & Saw.

On *Chrysomphalus aonidium* on *Citrus decumana*, Pueblo Viejo. *Lepidosaphes beckii* on *Citrus decumana*, and *C. sinensis*, Bayamón, Mayagüez, Pueblo Viejo.

Pseudoanidia articulatus, on *Citrus decumana*, Pueblo Viejo (85, 89).

MYROTHECIUM VERRUCARIA (A. & S.) Dtm.

On dead sugar-cane leaves and dead citrus twigs, Río Piedras (48, 96).

PUCCINIOPSIS CARICÆ Earle.

On *Carica papaya*, Río Piedras; Guánica, Vega Baja, Mona (Stevens) (20, 60, 94).

SPEGAZZINIA ORNATA Sacc.

On dead sugar-cane leaves and other plant debris, Río Piedras, Ponce, Santa Isabel, Cortada, Sabana Llana (48).

TUBERCULARIA COCCICOLA Stevenson.

On *Lepidosaphes beckii* and *Chionaspis citri*, on *Citrus decumana* and *C. sinensis*, Espinosa, Río Piedras, Pueblo Viejo, Bayamón (94, 96).

TUBERCULARIA SACCHARICOLA Speg.

On dead sugar-cane stalks, Río Piedras, Las Monjas, Carolina (48).

STERILE MYCELVIA.

HIMANTIA STELLIFERA Johnston.

On *Andropogon bicornis*, Río Piedras.

Cymbopogon citratus, Río Piedras.

Cyperus sphacelatus, Río Piedras.

Dichromena ciliata, Río Piedras.

HIMANTIA STILLIFERA Johnston.—Continued.

On *Heliotropium indicum*, Río Piedras.

Panicum laxum, Río Piedras.

Panicum maximum, Río Piedras.

Paspalum paniculatum, Río Piedras.

Paspalum plicatulum, Río Piedras.

Paspalum secans, Río Piedras.

Paspalum millegrana, Río Piedras.

Paspalum virgatum, Río Piedras.

Saccharum officinarum, Río Piedras, Cambalache, Juncos, Carolina, Guayama, Camuy, Isabela, Humacao, Peñuelas (23 48, 91, 94, 105).

Rynchospora cyperoides, Río Piedras.

Sporobolus indica, Río Piedras.

Stenotaphrum secundatum, Río Piedras.

Syntherisma digitata, Río Piedras.

Zea mays, Toa Baja.

OZONIUM STUPOSUM Pers.

Reported from the Schwanecke collection (50).

RHIZOCTONIA SOLANI Kühn.

See *Corticium vagum*.

SCLEROTIUM BATATICOLA Taub.

On *Ipomoea batatas*, Río Piedras. Charcoal rot.

SCLEROTIUM GRISEUM Stevenson. (In ed.)

On *Musa paradisiaca*, Río Piedras.

Saccharum officinarum, Río Piedras, Hormigueros, Las Monjas (48).

Zea mays, Río Piedras.

SCLEROTIUM PORTORICENSE Stevens.

On *Capriola dactylon*, Río Piedras; Santurce (Stevens) (82).

SCLEROTIUM ROLFSII Sacc.

On *Artocarpus communis*, Bayamón.

Bambusa vulgaris, Río Piedras.

Capsicum annuum, Río Piedras (94).

Citrus decumana, Bayamón, Sabana Llana (94, 96).

Daucus carota, Río Piedras.

Lycopersicum esculentum, Río Piedras.

Phaseolus vulgaris, Río Piedras.

Saccharum officinarum, Río Piedras, Las Monjas, Guaynabo, Hormigueros (38, 48, 94, 105).

Solanum melongena, Río Piedras (90, 94).

SCLEROTIUM ROLFSII Sacc.—Continued.

On *Triticum vulgare*, Mayagüez (Thomas).
Vicia faba, Río Piedras.

FUNGI OF UNKNOWN AFFINITY.

GRAPHIOLA CONGESTA B. & Rav.

Coll. N. Y. Bot. Garden. Host unknown.

GRAPHIOLA PHÆNICIS (Moug.) Port.

On *Inodes causiarum*, Jayuya (Stevens) (82).
Phænix dactylifera, Santa Rita, Santurce, San Juan, Palo Seco (20, 81, 82, 89, 94).
Thrinax præceps, Utuado (Stevens) (82).

PARASITIC ALGAE.

CHROOLEPIDÆ.

CEPHALEUROS VIRESSENS Kunze.

(*Cephaleuros mycoidea* Karst.)
 (Cephaleuros candelabrum Lagerh.)

On *Achras zapota*, Río Piedras.
Acrodiclidium salicifolium, Hormigueros (Stevens).
Alchornea latifolia, Río Piedras.
Artocarpus incisa, Espinosa.
Cajanus indicus, Vega Baja, Río Piédras (37).
Camphora officinalis, Naguabo.
Casearia sp., Río Piedras.
Cestrum laurifolium, Mayagüez (Stevens) (82).
Chrysobalanus icacao, Espinosa.
Citrus aurantifolia, Río Piedras. Sabana Llana (96).
Citrus aurantium, Palo Seco, Manatí (96).
Citrus decumana, Barceloneta. Trujillo Alto, Río Piedras (89, 96).
Citrus limonia, Caguas, Campo Alegre (96).
Clusia rosea, Naguabo.
Coccolobis diversifolia, Maricao (Stevens) (82).
Cupania americana (Stevens) (82).
Cydista aquinoctialis, Río Piedras.
Dendropanax arboreum, Río Tanamá (Stevens).
Eriobotrya japonica, Naguabo.
Ficus lavigata, Río Piedras.
Ficus nitida, Río Piedras.

CEPHALEUROS VIRESSENS Kunze.—*Continued.*

✓ On *Ficus reptans*, Bayamón.

✓ *Hibiscus rosa-sinensis*, Río Piedras.

Inga laurina, Jájome Alto, Mayagüez (Stevens).

Inga vera, Río Piedras.

Jambosa jambos, Espinosa; Añasco (Stevens).

Lasiacis sorghoidea, Jájome Alto (Stevens) (82).

Lonicera japonica, Naguabo.

Mangifera indica, Río Piedras.

Meibomia axillaris, Río Piedras.

Miconia laevigata, Mayagüez (Stevens) (82).

Miconia impetiolaris, Bayamón.

Muehlenbeckia platyclada, Río Piedras.

Myrcia deflexa, Mayagüez (Stevens).

Nectandra patens (Stevens).

Ocotea leucoxylon, Mayagüez (Stevens).

Piper medium, Río Piedras.

Polyscias guilfoylei, Naguabo.

Psidium guayava, Río Piedras, Espinosa; Mayagüez (Stevens).

Somidesia lindeniana, Jájome Alto (Stevens) (82).

Theobroma cacao, Mayagüez.

Vanilla planifolia, Mayagüez (Thomas).

SUMMARY.

	Genera.	Species.
MYXOMYCETES -----	14	27
SCHIZOMYCETES -----	3	9
PHYCOMYCETES -----	10	17
 ASCOMYCETES:		
SACCAROMYCETALES -----	1	3
PERISPORIALES -----	22	141
HYPocreales -----	25	34
DOTHIDIADALES -----	4	21
SPHÄRIALES -----	38	95
HYSTERIALES -----	2	4
PEZIZALES -----	15	19
PHACIDIADALES -----	1	2
 BASIDIOMYCETES:		
USTILAGINALES -----	11	19
UREDINALES -----	20	161
AGARICALES—		
TREMELLACEÆ -----	3	8
CLAVARIACEÆ -----	1	2
THELEPHORACEÆ -----	11	41
HYDNACEÆ -----	3	9
POLYPORACEÆ -----	10	86
AGARICACEÆ -----	22	46
LYCOPERDALES -----	9	20
 FUNGI IMPERFECTI:		
PHOMATALES -----	16	72
MELANCONIALES -----	4	31
MONILIALES—		
MONILIACEÆ -----	21	31
DEMATIACEÆ -----	24	104
STILBACEÆ -----	7	10
TUBERCULARIACEÆ -----	9	13
STERILE MYCELIA, misc-----	6	10
 TOTAL-----	<hr/> 312	<hr/> 1,035

HOST INDEX.

A

Abutilon hirtum
Puccinia heterospora
Abutilon indicum
Puccinia heterospora
Abutilon umbellatum
Phyllosticta hybiscina
Acacia riparia
Ravenelia Stevensii
Acalypha bisetosa
Meliola arecibensis
Acalypha mosaica
Rosellinia bunodes
Achras zapota
Cephaleuros virescens
Achyranthes aspera
Cercospora achyranthes
Acrista monticola
Auerswaldia palmicola
Meliola fureata
Pestalozzia funerea
Aerocomia media
Cercospora aerocomiae
Pestalozzia palmarum
Acrodiclidium salicifolium
Cephaleuros virescens
Adiantum sp.
Meliola pteridicola
Adiantum latifolium
Meliola pteridicola
Micropeltis manthæ (?)
Uredo gymnogrammes
Adiantum tenerum
Phyllosticta adianticola
Aegiphila martinicensis
Guignardia prominens

Aeschynomene americana
Uredo aeschynomensis
Agave rigida var. *sissalana*
Endothia Parryi
Lembosia agaves
Ageratum conyzoides
Puccinia rosea
Aklema petiolaris
Puccinia euphorbiæ
Albizia lebbeck
Phyllosticta divergens
Alchornea latifolia
Cephaleuros virescens
Olivea capituliformis
Allium cepa
Macrosporium porri
Urocystis cepulæ
Allophylus crassinervis
Meliola thouiniæ
Alpinia antillarum
Heterothecium phyllocharis
Phyllachora renalmiæ
Alternanthera portoricensis
Cercospora alternantheræ
Alternanthera sessilis
Guignardia cephalariæ var.
alternantheræ
Amaranthus spinosus
Albugo bliti
Amaranthus viridis
Albugo bliti
Amomis caryophyllata
Meliola amomicola
Amygdalus persica
Tranzschelia punctata
Amyris elemifera
Meliola monensis

Ananas sativus	Argemone mexicana
Spegazzinia ornata	Cladosporium guanicensis
Thielaviopsis paradoxa	Septoria chelidonii
Andira jamaicensis	Aristida portoricensis
Cercospora Stevensii	Balansia discoidea
Meliola andiræ	Dothichloë aristidæ
Physalospora andiræ	Arracacia anthorrhiza
Andropogon bicornis	Erysiphe polygoni
Himantia stellifera	Arthrostylidium sarmenosum
Meliola panici	Dimeriopsis arthrostylidicola
Myriogenospora Bresadoleana	Phyllachora graminis
Phyllachora luteo-maculata	Artocarpus camansi
Tolyposporella Brunkii	Uredo artocarpi
Andropogon brevifolius	Artocarpus insisa
Phyllachora graminis	Cephaleuros virescens
Uredo venustula	Sclerotium Rolfsii
Andropogon leucostachyus	Uredo artocarpi
Dothicloë atramentosa	Zignoella algaphial
Meliola panici	Asclepias curassavica
Phyllachora luteo-maculata	Puccinia concrescens
Aneimia sp.	Uromyces Howei
Meliola pteridicola	Asclepias nivea
Aneimia adiantifolia	Puccinia concrescens
Meliola pteridicola	Avicennia nitida
Anona montana	Meliola sepulta
Brachysporium stemphyloides	Axonopus compressus
Meliola longipoda	Myriogenospora Bresadoleana
Triposporium stelligerum	Uredo paspalicola
Anthurium acaule	B
Mycosphaerella anthurii	Bambusa vulgaris
Anthurium scandens	Melanconium saccharinum
Uredo anthurii	Uredo paspalicola
Apium graveolens	Banisteria laurifolia
Bacillus carotovorus	Meliola rectangularis
Phyllosticta apii	Bauhinia pauletia
Septoria petroselini var. apii	Cladosporium herbarum
Arachis hypogea	Uromyces jamaicensis
Cercospora personata	Begonia decandra
Uredo arachidis	Stilbella flava
Ardisia guadalupensis	Bernardia bernardia
Meliola myrsinacearum	Cercospora bernardiae

Beta vulgaris	Brassica integrifolia
Cercospora beticola	Albugo candida
Bidens leucantha	Cercospora blixami
Entyloma guaraniticum	Erysiphe polygoni
Sphaerotheca humuli	Brassica japonica
Thecaphora pustulata	Cercospora blixami
Uromyces bidenticola	Brassica juncea
Uromyces bidentis	Bacillus carotovorus
Bidens pilosa	Cercospora blixami
Uromyces bidenticola	Brassica napi
Uromyces bidentis	Cercospora blixami
Bidens reptans	Brassica oleracea
Sphaerotheca humuli	Bacterium campestris
Bihai borinquena	Brassica Pe-tsai
Uredo heliconiae	Cercospora blixami
Bixa orellana	Brassica rapae
Cercospora bixaæ	Cercospora blixami
Phyllosticta bixina	Colletotrichum Higginscanum
Uredo bixaæ	Bromelia pinguin
Blechum Brownii	Perispodium bromeliæ
Puccinia blechi	Bryophyllum pinnatum
Bletia patula	Stilbella flava
Uredo nigropunctata	Byrsinima crassifolia
Boerhaavea erecta	Uredo notata
Albugo platensis	Byrsinima lucida
Boerhaavea hirsuta	Meliola byrsinimæ
Albugo platensis	
Borreria laevis	C
Meliola psychotriæ	Cæsalpinia pulcherrima
Puccinia lateritia	Ravenelia Humphreyana
Borreria ocimoides	Cajanus indicus
Meliola psychotriæ	Cephaleuros virescens
Borreria verticillata	Cercospora cajani
Puccinia lateritia	Creonectria grammicospora
Bradburya pubescens	Megalonectria pseudotrichia
Cercospora bradburyæ	Nectria episphaeria
Meliola bicornis	Pleonectria megalonectria
Bradburya virginiana	Triblidium rufulum
Meliola bicornis	Uromyces dolicholi
Brassica arvensis	Caladium bicolor
Cercospora blixami	Helminthosporium caladii

<i>Calathea lutea</i>	<i>Capsicum annuum</i> — <i>Cont.</i>
<i>Puccinia cannæ</i>	<i>Gloeosporium piperatum</i>
<i>Calophyllum calaba</i>	<i>Pestalozzia funerea</i>
<i>Meliola calophylli</i>	<i>Sclerotium Rolfsii</i>
<i>Perisporium portoricense</i>	
<i>Calopogonium orthocarpum</i>	<i>Capsicum baccatum</i>
<i>Cercospora borinquensis</i>	<i>Meliola capsicola</i>
<i>Meliola bieornis</i> var. <i>calopogonii</i>	<i>Capsicum frutescens</i>
	<i>Gloeosporium piperatum</i>
<i>Calotropis procera</i>	<i>Cardiospermum microcarpum</i>
<i>Cladosporium calotropidis</i>	<i>Puccinia arechavellatæ</i>
<i>Camphora officinalis</i>	<i>Carica papaya</i>
<i>Cephaleuros virescens</i>	<i>Colletotrichum falcatum</i>
<i>Campyloneurum</i> sp.	<i>Glomerella cingulata</i>
<i>Corynelia pteridicola</i>	<i>Pucciniopsis caricæ</i>
<i>Canavalia ensiformis</i>	<i>Zygosporium oschioides</i>
<i>Cerotelium canavaliae</i>	<i>Casearia</i> sp.
<i>Canavalia gladiata</i>	<i>Cephaleuros virescens</i>
<i>Cerotelium canavaliae</i>	<i>Meliola paulliniæ</i>
<i>Cladosporium herbarum</i>	<i>Casearia aculeata</i>
<i>Canavalia obtusifolia</i>	<i>Meliola paulliniæ</i>
<i>Cladosporium herbarum</i>	<i>Casearia arborea</i>
<i>Canna coccinea</i>	<i>Meliola paulliniæ</i>
<i>Cladosporium herbarum</i>	<i>Casearia guianensis</i>
<i>Haplographium portoricense</i>	<i>Cercospora caseariae</i>
<i>Puccinia cannæ</i>	<i>Casearia ramiflora</i>
<i>Canna edulis</i>	<i>Cercospora caseariae</i>
<i>Periconia pycnospora</i>	<i>Meliola paulliniæ</i>
<i>Canna glauca</i>	<i>Casearia sylvestris</i>
<i>Cladosporium herbarum</i>	<i>Cercospora caseariae</i>
<i>Puccinia cannæ</i>	<i>Meliola paulliniæ</i>
<i>Canna indica</i>	<i>Cassia alata</i>
<i>Myrmæcium cannæ</i> (?)	<i>Cercospora chamæcrista</i>
<i>Capriola dactylon</i>	<i>Cercospora simulata</i>
<i>Puccinia cynodontis</i>	<i>Cassia emarginata</i>
<i>Sclerotium portoricense</i>	<i>Ravenelia portoricensis</i>
<i>Capsicum annuum</i>	<i>Cassia fistula</i>
<i>Cercospora capsici</i>	<i>Phyllachora cassiae</i>
<i>Cladosporium herbarum</i>	<i>Cassia occidentalis</i>
<i>Colletotrichum nigrum</i>	<i>Cercospora chamæcrista</i>
	<i>Erysiphe polygoni</i>

Cassia quinquangulata	Chamæcrista diphylla
Meliola toruloidea	Erysiphe polygoni
Uredo lutea	Chamæcrista glandulosa
Cassia tora	Meliola chamæcristæ
Erysiphe polygoni	Ravenelia cassiæcola
Cayaponia americana	Chamæcrista granulata
Cercospora cucurbiticola	Meliola chamaeristicola
Dimerium cayaponiæ	Chamæsyce brasiliensis
Uromyces Hellerianus	Microsphæra euphorbiæ
Cayaponia racemosa	Uromyces proëminens
Meliola cucurbitacearum	Chamæsyce hirta
Uromyces Hellerianus	Uromyces proëminens
Cecropia peltata	Chamæsyce hypericifolia
Passalora cecropiæ	Microsphæra euphorbiæ
Cenchrus carolinianus	Uromyces proëminens
Puccinia cenchri	Chamæsyce prostrata
Cenchrus echinatus	Uromyces proëminens
Phyllachora sphærosperma	Chiococca alba
Puccinia cenchri	Meliola chiococæ
Cenchrus myosuroides	Meliola psychotriæ
Phyllachora sphærosperma	Triposporium stelligerum
Cenchrus viridis	Chloris petræa
Puccinia cenchri	Dothichlœ atramentosa
Centella asiatica	Meliola panicæ
Septoria asiatica	Chrysobolanus icaco
Cestrum sp.	Cephaleuros virescens
Epicoccum neglectum	Mycosphaerella chrysobalani
Cestrum laurifolium	Pestalozzia guepinia
Cephaleuros virescens	Chrysophyllum sp.
Meliola gesneriæ	Meliola ocoteicola
Uromyces cestri	Cissus acida
Cestrum macrophyllum	Mykosyrinx cissi
Meliola gesneriæ	Cissus erosa
Uromyces cestri	Mykosyrinx cissi
Chætochloa geniculata	Cissus sicyoides
Puccinia substriata	Endophyllum circumscriptum
Chaetochloa setosa	Meliola Merrillii
Puccinia cameliae	Mykosyrinx cissi
Chamaecrista aeschynomene	Phyllosticta cissicola
Erysiphe polygoni	Stilbella flava
Ravenelia cassiæcola	

Citrullis vulgaris
Cercospora citrullina
Diplodia sp.
Citrus aurantifolia
Cephaleuros virescens
Diplodia natalensis
Penicillium digitatum
Citrus aurantium
Cephaleuros virescens
Cladosporium citri
Stereum coffearum
Citrus decumana
Aspergillus flavus
Aspergillus niger
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Cladosporium herbarum
Colletotrichum gloeosporioides
Corticium confluens
Corticium salmonicolor
Daldinia concentrica
Diplodia natalensis
Graphis afzelii
Hypoxyylon fuscopurpurea
Lecanidion eyaneum
Leptothyrium pomi
Myrthecium verrucaria
Nectria episphaeria
Penicillium crustaceum
Penicillium digitatum
Penicillium italicum
Peniophora cinerea
Peniophora flavidо-alba
Pestalozia guepinia
Phomopsis citri
Polystictus occidentalis
Polystictus pinsitus
Rhizopus nigricans
Schizophyllum commune
Sclerotium Rolfsii

Citrus decumana—*Cont.*
Septobasidium lilacinum
Stereum albo-badium
Stictis radiata
Tryblidium rufulum
Ustilina vulgaris
Citrus limonis
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Diplodia natalensis
Penicillium digitatum
Citrus nobilis
Cladosporium citri
Diplodia natalensis
Penicillium digitatum
Citrus sinensis
Alternaria citri
Aspergillus niger
Capnodium citri
Cephaleuros virescens
Cladosporium citri
Colletotrichum gloeosporioides
Corticium salmonicolor
Diplodia natalensis
Leptothyrium pomi
Penicillium digitatum
Peniophora cinerea
Phomopsis citri
Rhizopus nigricans
Schizophyllum commune
Stictis radiata
Stilbella flava
Ustilina vulgaris
Cleome pentaphylla
Cercospora conspicua
Clibadium erosum
Endophyllum decoloratum
Clidemia hirta
Meliola melastomacearum

Clidemia strigillosa	Coccolobis uvifera— <i>Cont.</i>
Meliola melastomacearum	Pestalozzia uvifera
Clitoria cajanifolia	Uredo coccolobæ
Uromyces neurocarpi	Coccothrinax alta
Clitoria rubiginosa	Meliola furcata
Uromyces neurocarpi	Cocos nucifera
Clusia gundlachii	Pestalozzia palmarum
Mycosphaerella guttiferæ	Thielaviopsis paradoxa
Guignardia clusiæ	Coffea spp.
Clusia minor	Pellicularia koleroga
Meliola clusiæ	Stilbella flava
Clusia rosea	Coffea arabica
Cephaleuros virescens	Cercospora coffeeæ
Clithris clusiæ	Cercospora coffeeicola
Clithris minor	Colletotrichum coffeeanum
Dimerium melioloides	Hemileia vastatrix
Ellisiella portoricensis	Micropeltis longispora
Mycosphaerella clusiæ	Pellicularia koleroga
Pestalozzia funerea	Rosellinia bunodes
Phyllosticta clusiæ	Stilbella flava
Uredo clusiæ	Coffea excelsa
Coccocypselum repens	Stilbella flava
Meliola glabra var. psychotriæ	Coffea Perrieri
Coccolobis sp.	Stilbella flava
Cephaleuros virescens	Coffea robusta
Melasma coccolobiæ	Stilbella flava
Meliola prætervisa	Colocasia esculenta
Phyllosticta coccolobæ	Phyllosticta colocasicola
Coccolobis diversifolia	Commelina longicaulis
Cephaleuros virescens	Illosporium commelinæ
Microclava coccolobiæ	Commelina nudiflora
Coccolobis laurifolia	Phyllosticta commelinicola
Meliola rectangularis	Stilbella flava
Coccolobis nivea	Commelina virginica
Trabulia portoricensis	Illosporium commelinæ
Coccolobis pyrifolia	Uredo commelyneæ
Meliola prætervisa	Uromyces commelinæ
Coccolobis sintenissii	Comocladia glabra
Meliola prætervisa	Meliola comocladiae
Coccolobis uvifera	Conocarpus erecta
Lembasia coccolobæ	Meliola lagunculariae

Cordia sp.
 Meliola longipoda
 Cordia alliodora
 Puccinia cordiae
 Cordia collocoeca
 Trabutiella cordiae
 Cordia corymbosa
 Dimerium Stevensii
 Meliola longipedata
 Cordia nitida
 Meliola longipoda
 Cordia sulcata
 Dimeriella cordiae
 Cordyline terminalis
 Phyllosticta maculicola
 Cosmos caudatus
 Erysiphe cichoracearum
 Uromyces bidentis
 Cosmos sulphureus
 Sphaerotheca humuli
 Craecia cinerea
 Ravenelia caulincola
 Crassina elegans
 Cercospora atricincta
 Crossopetalum pallens
 Meliola compacta
 Crotalaria retusa
 Dimerium grammodes
 Microsphaera diffusa
 Parodiella perisporioides
 Croton discolor
 Asterina triloba
 Croton lueidus
 Phyllosticta portoricensis
 Cucumis anguria
 Pellicularia Koleroga
 Peronoplasmodium cubensis
 Cucumis melo
 Colletotrichum lagenarium
 Mycosphaerella citrullina
 Peronoplasmodium cubensis
 Cucumis melo—*Cont.*
 Phyllosticta citrullina
 Phytophthora terrestris
 Cucumis sativus
 Colletotrichum lagenarium
 Peronoplasmodium cubensis
 Phyllosticta cucurbitacearum
 Cucurbita moschata
 Peronoplasmodium cubensis
 Cupania sp.
 Meliola cupaniae
 Cupania americana
 Cephaleuros virescens
 Meliola cupaniae
 Meliola prætervisa
 Cuphea parsonis
 Uredo cupheæ
 Cydista æquinoctialis
 Cephaleuros virescens
 Puccinia cuticulosa
 Cymbopogon citratus
 Himantia stellifera
 Melanconium saccharinum
 Cyperus sp.
 Meliola cyperi
 Cyperus ferox
 Puccinia canaliculata
 Cyperus giganteus
 Phyllachora cyperi
 Puccinia canaliculata
 Cyperus laevigatus
 Puccinia canaliculata
 Cyperus ligularis
 Cintractia limitata
 Cyperus odoratus
 Puccinia canaliculata
 Cyperus polystachys
 Puccinia canaliculata
 Cyperus radiatus
 Puccinia canaliculata

Cyperus reticulatus
Puccinia canaliculata
Cyperus sphacelatus
Cintractia axicola
Puccinia canaliculata
Cyperus surinamensis
Puccinia canaliculata

D

Dahlia variabilis
Erysiphe eichoracearum
Dalbergia sp.
Meliola bicornis
Dalbergia monetaria
Meliola bicornis
Datura suaveolens
Alternaria solani
Daucus carota
Sclerotium Rolfsii
Dendropanax arboreum
Cephaleuros virescens
Meliola didymopanicis
Mycosphaerella didymopanicis
Phyllosticta araliana
Dendropanax laurifolium
Meliola didymopanicis
Dianthus sp.
Alternaria dianthi
Dichromena ciliata
Uredo dichromenæ
Dichromena radicans
Uredo dichromenæ
Didymopanax morototoni
Mycosphaerella didymopanicis
Dieffenbachia seguine
Meliola dieffenbachiae
Phyllosticta colocasiae
Diodia littoralis
Puccinia lateritia
Diodia maritima
Puccinia lateritia

Diodia rigida
Puccinia lateritia
Dioscorea alata
Cercospora carbonacea
Dioscorea polygonoides
Uredo dioscoreæ
Dipholos salicifolia
Meliola dipholidis
Dolicholus minimus
Erysiphe polygoni
Uromyces dolicholi
Dolicholus reticulatus
Meliola bicornis
Uromyces dolicholi
Dolichos biflorus
Erysiphe polygoni
Dolichos lablab
Cercospora canescens
Physopella concors
Dorstenia contrajerva
Uredo rubescens
Drymaria cordata
Physalospora caryophyllincola
Dryopteris mollis
Uredo gymnogrammes
Dryopteris poiteana
Uredo gymnogrammes
Drypetes sp.
Meliola glabra

E

Echinodorus cordifolius
Burrillia echinodori
Eleocharis capitata
Puccinia eleocharidis
Eleocharis cellulosa
Puccinia eleocharidis
Eleocharis flaccida
Puccinia eleocharidis

<i>Eleocharis geniculata</i>	<i>Eugenia monticola</i>
<i>Puccinia eleocharidis</i>	<i>Meliola Helleri</i>
<i>Eleocharis interstincta</i>	<i>Eugenia Stahlii</i>
<i>Puccinia eleocharidis</i>	<i>Meliola Helleri</i>
<i>Eleocharis mutata</i>	<i>Eupatorium</i> sp.
<i>Puccinia eleocharidis</i>	<i>Erysiphe galeopsidia</i> (?)
<i>Elephantopus mollis</i>	<i>Meliola compositarum</i>
<i>Coleosporium elephantopodis</i>	<i>Eupatorium macrophyllum</i>
<i>Stilbella flava</i>	<i>Coleosporium eupatorii</i>
<i>Eleutheranthera ruderaria</i>	<i>Eupatorium microstylum</i>
<i>Puccinia synedrella</i>	<i>Erysiphe eichoracearum</i>
<i>Emilia sonchifolia</i>	<i>Eupatorium odoratum</i>
<i>Puccinia synedrella</i>	<i>Meliola compositarum</i>
<i>Epidendrum difforme</i>	<i>Phyllosticta eupatoricola</i>
<i>Uredo guacae</i>	<i>Eupatorium polyodon</i>
<i>Epidendrum rigidum</i>	<i>Puccinia rosea</i>
<i>Uredo guacae</i>	<i>Eupatorium portoricense</i>
<i>Eragrostis tephrosanthos</i>	<i>Meliola compositarum</i> var.
<i>Uromyces eragrostidis</i>	<i>portoricense</i>
<i>Erigeron pusillum</i>	<i>Evolvulus nummularius</i>
<i>Dimeriella erigeronicola</i>	<i>Puccinia lithospermi</i>
<i>Erigeron spathulata</i>	<i>Exogonium repandum</i>
<i>Dimeriella erigeronicola</i>	<i>Phyllosticta ipomoeae</i>
<i>Eriobotrya japonica</i>	
<i>Cephaleuros virescens</i>	
<i>Eriochloa subglabra</i>	F
<i>Gibberella pulicaris</i>	<i>Ficus</i> sp.
<i>Puccinia substriata</i>	<i>Kuehneola</i> fici
<i>Erythalis fruticosa</i>	<i>Physalospora</i> hoyae
<i>Meliola psychotriæ</i>	
<i>Ernodea littoralis</i>	<i>Ficus carica</i>
<i>Puccinia lateritia</i>	<i>Kuehneola</i> fici
<i>Erythrina glauca</i>	<i>Ficus crassinervia</i>
<i>Uredo cabreriana</i>	<i>Kuehneola</i> fici
<i>Erythrina micropteryx</i>	<i>Ficus</i> laevigata
<i>Meliola bicornis</i>	<i>Cephaleuros</i> virescens
<i>Phyllosticta erythrinicola</i>	<i>Kuehneola</i> fici
<i>Erythroxylon areolatum</i>	<i>Ficus</i> lentiginosa
<i>Uredo erythroxylonis</i>	<i>Kuehneola</i> fici
<i>Eugenia buxifolia</i>	<i>Ficus</i> nitida
<i>Phyllosticta eugeniae</i>	<i>Cephaleuros</i> virescens
	<i>Nummularia</i> bulliardii
	<i>Ficus</i> reptans
	<i>Cephaleuros</i> virescens

Fimbristylis diphylla
Cintractia axicola
Puccinia fimbristylidis
Fimbristylis ferruginea
Cintractia axicola
Puccinia fimbristylidis
Uredo superior
Fimbristylis miliacea
Puccinia fimbristylidis
Fimbristylis spadicea
Uredo superior
Forsteronia corymbosa
Meliola tabernæmontanae var.
forsteroniæ
Fragaria sp.
Mycosphærella fragariæ
Fuirena umbellata
Uredo fiurenæ
Furcraea tuberosa
Endothia parryi
Phoma fourcroyæ

G

Galactia dubia
Meliola bicornis var. *galactiæ*
Galactia striata
Phyllachora galactiæ
Galactia tenuiflora
Phyllachora galactiæ
Garcinia mangostana
Pellicularia koleroga
Gesneria albiflora
Meliola gesneriæ
Nitschkia nervincola
Gomiopteris guadalupensis
Uredo gymnogrammes
Gonzalagunia spicata
Meliola psychotriæ
Wageria portoricensis

Gossypium barbadense
Cercospora gossypina
Kuehneola gossypii
Ramularia areola
Gossypium brasiliense
Kuehneola gossypii
Gossypium hirsutum
Kuehneola gossypii
Gouania lupuloides
Meliola tenuissima
Puccinia gouaniæ
Uredo gouaniæ
Gouania polygama
Puccinia gouaniæ
Uredo gouaniæ
Graptophyllum pictum
Rosellinia bunodes
Guarea trichilioides
Meliola guareæ
Meliola guareicola
Phyllosticta guareæ
Guettarda ovalifolia
Meliola guettardæ
Meliola psychotriæ
Septoria ovalifolia
Guettarda seabra
Meliola psychotriæ
Guilandina crista
Cercospora guanicensis
Phyllosticta guanicensis
Gymnanthes lucida
Meliola gymnanthiæ
Gymnogramma sulphura
Mycosphærella tyrolensis

H

Habenaria maculosa
Uredo gynandrearum
Hamelia erecta
Uredo hameliae

<i>Helianthus annuus</i>	<i>Hydrocotyle umbellata</i>
<i>Bacterium solanacearum</i> (?)	<i>Puccinia hydrocotyles</i>
<i>Helicteres jamaicensis</i>	<i>Hygrophila brasiliensis</i>
<i>Cercospora trichophila</i>	<i>Meliola irregularis</i>
<i>Guignardia helicteres</i>	<i>Hymenaea courbaril</i>
<i>Phyllosticta borinquensis</i>	<i>Uredo hymenææ</i>
<i>Hemidiodia ocimifolia</i>	<i>Hymenocallis expansa</i>
<i>Aecidium boreriae</i>	<i>Cercospora amaryllidis</i>
<i>Heterotrichum cymosum</i>	<i>Gloeosporium hemeroallidis</i>
<i>Guignardia heterotrichi</i>	<i>Hypelate trifoliata</i>
<i>Meliola melastomacearum</i>	<i>Meliola glabra</i>
<i>Phyllachora peribebuyensis</i>	<i>Hypoxis decumbens</i>
<i>Hibiscus</i> sp.	<i>Uredo globulosa</i>
<i>Cephaleuros virescens</i>	<i>Hyptis</i> sp.
<i>Hibiscus esculentus</i>	<i>Meliola hyptidicola</i>
<i>Cercospora hibisci</i>	<i>Hyptis atrorubens</i>
<i>Choanephora cucurbitarum</i>	<i>Meliola hyptidicola</i>
<i>Hibiscus sabdariffa</i>	<i>Puccinia medellinensis</i>
<i>Microsphaera euphorbiæ</i>	<i>Hyptis capitata</i>
<i>Hibiscus tiliaceus</i>	<i>Meliola hyptidicola</i>
<i>Cercospora hibisci</i>	<i>Pseudomeliola collapsa</i>
<i>Meliola triumphæ</i>	<i>Puccinia hyptidis</i>
<i>Phyllachora minuta</i>	<i>Hyptis latanifolium</i>
<i>Hippocratea volubilis</i>	<i>Meliola hyptidicola</i>
<i>Botryorhiza hippocrateæ</i>	<i>Puccinia insititia</i>
<i>Pestalozzia funerea</i>	<i>Hyptis pectinatum</i>
<i>Holcus halepensis</i>	<i>Meliola hyptidicola</i>
<i>Colletotrichum lineola</i>	<i>Puccinia medellinensis</i>
<i>Puccinia purpurea</i>	<i>Hyptis suaveolens</i>
<i>Holcus sorghum</i>	<i>Puccinia medellinensis</i>
<i>Colletotrichum lineola</i>	
<i>Puccinia purpurea</i>	
<i>Holcus sorghum</i> var. <i>sudanensis</i>	
<i>Puccinia purpurea</i>	
<i>Hura crepitans</i>	I
<i>Cercospora hurae</i>	<i>Ichnanthus pallens</i>
<i>Colletotrichum curvisetum</i>	<i>Dothichloe nigricans</i>
<i>Hydrocotyle australis</i>	<i>Meliola panici</i>
<i>Puccinia hydrocotyles</i>	<i>Puccinia substriata</i>

<i>Indigofera suffruticosa</i>	<i>Ipomoea cathartica</i>
<i>Ravenelia indigoferæ</i>	<i>Meliola clavulata</i>
<i>Inga laurina</i>	<i>Meliola ipomœæ</i>
<i>Cephaleuros virescens</i>	<i>Meliola quadrispina</i>
<i>Dimerium truncatum</i>	<i>Ipomoea littoralis</i>
<i>Melasmia ingæ</i>	<i>Coleosporium ipomœæ</i>
<i>Meliola toruloidea</i>	<i>Ipomoea nil</i>
<i>Microstroma</i>	<i>Coleosporium ipomœæ</i>
<i>Perisporium truncatum</i>	<i>Ipomoea pes-capræ</i>
<i>Polystictus maximus</i>	<i>Albugo ipomœæ-panduranaæ</i>
<i>Ravenelia ingæ</i>	<i>Ipomoea rubra</i>
<i>Stereum caperatum</i>	<i>Coleosporium ipomœæ</i>
<i>Inga vera</i>	<i>Meliola clavulata</i>
<i>Antennularia tenuis</i>	<i>Ipomoea stolonifera</i>
<i>Cephaleuros virescens</i>	<i>Coleosporium ipomœæ</i>
<i>Dimerium truncatum</i>	<i>Ipomoea tiliacea</i>
<i>Meliola toruloidea</i>	<i>Albugo ipomœæ-panduranaæ</i>
<i>Mycosphaerella maculiformis</i>	<i>Meliola ipomœæ</i>
<i>Pestalozzia funerea</i>	<i>Meliola clavulata</i>
<i>Ravenelia ingæ</i>	<i>Ipomoea triloba</i>
<i>Revenelia Whetzelii</i>	<i>Puccinia crassipes</i>
<i>Stilbella flava</i>	<i>Iresine elatior</i>
<i>Inodes causiarum</i>	<i>Puccinia macropoda</i>
<i>Graphiola phœnicis</i>	<i>Iresine panniculata</i>
<i>Ipomoea</i> sp.	<i>Cercospora Gilbertii</i>
<i>Meliola clavulata</i>	
<i>Meliola ipomœæ</i>	
<i>Ipomoea angustifolia</i>	J
<i>Coleosporium ipomœæ</i>	<i>Jacquemontia rodiflora</i>
<i>Ipomoea batatas</i>	<i>Albugo ipomœæ-panduranaæ</i>
<i>Albugo ipomœæ-panduranaæ</i>	<i>Uromyces gemmatus</i>
<i>Coleosporium ipomœæ</i>	<i>Jacquemontia tamnifolia</i>
<i>Diplodia tubericola</i>	<i>Albugo ipomœæ-panduranaæ</i>
<i>Meliola clavulata</i>	<i>Coleosporium ipomœæ</i>
<i>Meliola ipomœæ</i>	<i>Jacquinia barbacea</i>
<i>Phyllosticta batatas</i>	<i>Dimerina jacquiniae</i>
<i>Rhizopus nigricans</i>	<i>Jacquinia Berterii</i>
<i>Schizophyllum commune</i>	<i>Phyllachora inclusa</i>
<i>Sclerotium bataticola</i>	<i>Jambosa jambos</i>
<i>Ipomoea bona-nox</i>	<i>Cephaleuros virescens</i>
<i>Cladosporium herbarum</i>	<i>Pestalozzia funerea</i>
	<i>Puccinia psidii</i>

Jatropha curcas

Uredo jatrophicola

Jatropha gossypifolia

Uredo jatrophicola

Jatropha hernandifolia

Meliola jatropheæ

Justicia verticillaris

Guignardia justiciæ

K

Krugiodendron ferreum

Meliola thouiniæ

Kyllingia brevifolia

Puccinia canaliculata

Kyllingia pumila

Puccinia canaliculata

L

Lactuca intybacea

Uredo proximella

Lactuca sativa

Cercospora lactucæ

Physarum cinereum

Lagenaria leucantha

Cercospora cucurbitæ

Laguncularia racemosa

Meliola lagunculariæ

Meliola nigra

Myerothyrium lagunculariæ

Physalospora lagunculariæ

Lantana sp.

Meliola ambigua

Lantana camara

Diatrypella lantanæ

Meliola ambigua

Perisporina lantanæ

Phyllosticta lantanæ

Puccinia lantanæ

Septoria lantanæ

Lantana involucrata

Puccinia lantanæ

Lantana odorata

Meliola ambigua

Lasiacis divaricata

Meliola panici

Uromyces leptodermus

Lasiacis lingulata

Uromyces leptodermus

Lasiacis ruscifolia

Meliola panici

Lasiacis Sloanei

Asterina fumagina

Meliola panici

Uromyces leptodermus

Lasiacis sorghoidea

Cephaleuros virescens

Meliola panici

Phyllachora graminis

Physalospora bambusæ

Uromyces leptodermus

Leonotis nepetæfolia

Puccinia leonotidis

Lepidium sp.

Cercospora lepidii

Lepidium virginicum

Albugo candida

Cercospora lepidii

Leptilon canadense

Dimeriella erigeronicola

Lobelia sp.

Entyloma lobeliæ

Lobelia assurgens var. *portoricensis*

Colletotrichum lobeliæ

Lonchocarpus glaucifolius

Meliola bicornis

Lonicera japonica

Cephaleuros virescens

Lucuma multiflora

Meliola lucumæ

Luffa ægyptica

Pellicularia koleroga

Luffa cylindrica
Peronoplasmopora cubensis
Lycopersicum esculentum
Bacillus solanacearum
Cladosporium fulvum
Colletotrichum phomoides
Phoma destructiva
Phytophthora infestans
Phytophthora terrestris
Sclerotium Rolfsii
Septoria lycopersici

M

Macrodiscus lactiflorus
Meliola fureata
Magnolia portoricensis
Meliola magnoliæ
Malachra rotundifolia
Cercospora malaëhræ
Malachra seabra
Kuehneola malvicola
Puccinia heterospora
Mammea americana
Meliola paullinæ
Mangifera indica
Capnodium mangiferum
Cephaleuros virescens
Colletotrichum gloeosporioides
Meliola mangiferae
Pestalozzia guepinia
Stilbella flava
Strigula complanata
Manihot manihot
Cercospora cassavæ
Cercospora henningsii
Microsphæra euphorbiæ
Uromyces janiphæ
Mariscus jamaicensis
Meliola circinans
Meliola cyperi
Puccinia cladii

Mayepea domingensis
Meliola mayepea
Meliola mayepeicola
Meibomia adscendens
Dimerium grammodes
Meliola bicornis
Microsphæra diffusa
Meibomia axillaris
Cephaleuros virescens
Meliola bicornis
Uromyces hedysari-paniculati
Meibomia barbata
Dimerium grammodes
Meibomia scoriurus
Microsphæra diffusa
Uromyces hedysari-paniculati
Meibomia supina
Meliola bicornis
Microsphæra diffusa
Physopella meibomiæ
Meibomia tortuosum
Microsphæra diffusa
Uromyces hedysari-paniculati
Melanthera canescens
Sphaerotheca humuli
Uromyces columbianus
Melia azedarach
Peniophora galachroa
Polystictus pavonius
Melothria guadalupensis
Uromyces Hellerianus
Metastelma lineare
Puccinia obliqua
Metastelma parviflorum
Puccinia obliqua
Miconia sp.
Lembosia diffusa
Monogramminia miconiæ
Napicladium fumago
Triposporium stelligerum

<i>Miconia impetiolaris</i>	<i>Mucuna pruriens</i>
<i>Cephaleuros virescens</i>	<i>Cercospora mucusmæ</i>
<i>Meliola melastomacearum</i>	<i>Mycosphaerella mucusmæ</i>
<i>Septoria miconiae</i>	
<i>Miconia laevigata</i>	<i>Muehlenbeckia platyclada</i>
<i>Blastotrichum miconiae</i>	<i>Cephaleuros virescens</i>
<i>Borinquenia miconiae</i>	<i>Musa</i> sp.
<i>Cephaleuros virescens</i>	<i>Antennularia (?) tenuis</i>
<i>Hyalosphaera miconiae</i>	
<i>Meliola melastomacearum</i>	<i>Musa paradisiaca</i>
<i>Microclava miconiae</i>	<i>Fusarium cubense</i>
<i>Phyllachora peribebuyensis</i>	<i>Fusarium radicicola</i>
<i>Septoria miconiae</i>	<i>Gleosporium musarum</i>
<i>Miconia prasina</i>	<i>Nectria suffulta</i>
<i>Meliola miconiae</i>	<i>Pestalozzia funerea</i>
<i>Phyllachora peribebuyensis</i>	<i>Stilbella flava</i>
<i>Miconia racemosa</i>	<i>Myrcia</i> sp.
<i>Meliola melastomacearum</i>	<i>Cephaleuros virescens</i>
<i>Miconia Sintenisii</i>	<i>Myrcia deflexa</i>
<i>Meliola miconiaeicola</i>	<i>Cephaleuros virescens</i>
<i>Phyllachora peribebuyensis</i>	<i>Meliola Helleri</i>
<i>Mikania</i> sp. .	<i>Triposporium stelligerum</i>
<i>Cercospora mikaniacola</i>	<i>Myrcia splendens</i>
<i>Cladosporium mikaniæ</i>	<i>Meliola Helleri</i>
<i>Meliola compositarum</i>	<i>Myrcia cerifera</i>
<i>Septoria mikaniæ</i>	<i>Meliola manca</i>
<i>Mikania cordifolia</i>	
<i>Endophylloides portoricensis</i>	N
<i>Mikania odoratissima</i>	<i>Nectandra</i> sp.
<i>Endophylloides portoricensis</i>	<i>Cephaleuros virescens</i>
<i>Mikania scandens</i>	<i>Nectandra patens</i>
<i>Puccinia Spegazzini</i>	<i>Cephaleuros virescens</i>
<i>Mimosa ceratonia</i>	<i>Meliola glabroides</i>
<i>Meliola bicornis</i>	<i>Nephrolepis rivularis</i>
<i>Ravenelia cæsalpiniae</i>	<i>Milesia columbiensis</i>
<i>Mitracarpus portoricensis</i>	<i>Neurolæna lobata</i>
<i>Meliola psychotriæ</i>	<i>Puccinia synedrellæ</i>
<i>Puccinia lateritia</i>	
<i>Momisia iguanea</i>	<i>Nicotiana</i> <i>tobacum</i>
<i>Phyllosticta momisiana</i>	<i>Ascochyta</i> <i>nicotianæ</i>
	<i>Bacillus solanacearum</i>
	<i>Cercospora</i> <i>nicotianæ</i>

O

Ocimum micranthum
Sphaerotheca humuli
Ocotea leucoxylon
Cephaleuros virescens
Meliola ocoteæ
Meliola ocoteicola
Olyra latifolia
Asterina funagina
Dimeriella olyræ
Meliola panici
Puccinia deformata
Operculina dissecta
Uredo operculinæ
Oplismenus hirtellus
Phyllachora puncta
Uredo olyræ
Oplismenus setarius
Meliola panici
Opuntia sp.
Diplodia opuntiæ
Perisporiopsis Wrightii
Opuntia dillenii
Septoria fici-indieæ
Ormosia krugii
Puccinia ormosiæ
Oryza sativa
Cercospora oryzæ
Piricularia grisea

P

Palicourea sp.
Meliola glabra var. *psycho-triæ*
Meliola mayaguesiana
Palicourea crocea
Meliola mayaguesiana
Puccinia fallaciosa

Palicourea domingensis
Meliola glabra var. *psycho-triæ*
Meliola mayaguesiana
Palicourea riparia
Meliola mayaguesiana
Puccinia fallaciosa
Panax plumatum
Rosellinia bunodes
Pandanus sp.
Colletotrichum omnivorum
Phyllosticta pandanicola
Panicum barbinode
Uromyces leptodermus
Panicum fasciculatum
Puccinia Huberi
Panicum glutinosum
Meliola panici
Panicum laxum
Ustilaginoidea usambarensis
Panicum maximum
Himantia stellifera
Otthia panici
Phyllosticta panici
Panicum parvifolium
Uromyces leptodermus
Panicum tricanthum
Hyporella hypoxylon
Panicum trichoides
Puccinia Huberi
Panicum utowanæum
Puccinia Huberi
Parathesis serrulata
Meliola parathesicola
Paspalum conjugatum
Helminthosporium mayaguenzense
Myriogenospora Bresadoleana
Phyllachora graminis
Uredo paspalicola

Paspalum fimbriatum	Persea gratissima
Puccinia levis	Meliola perseæ
Paspalum glabrum	Mycosphaerella perseæ
Puccinia substriata	Phyllachora gratissima
Uredo paspalicola	Persicaria portoricensis
Paspalum millegrana	Puccinia polygoni-amphibii
Himantia stellifera	Persicaria punctata
Phyllachora andropogonis	Cercospora hydropiperis
Puccinia levis	Puccinia polygoni-amphibii
Paspalum orbiculatum	Petitia domingensis
Puccinia substriata	Olivea petitiae
Paspalum paniculatum	Septoria petitiae
Puccinia substriata	Petiveria alliacea
Uredo paspalicola	Rosellinia bunodes
Paspalum plicatulum	Vermicularia atricha
Claviceps paspali	Phaseolus sp.
Puccinia levis	Cercosporium beticola
Uredo paspalicola	Erysiphe polygoni
Paspalum portoricense	Phytophthora phaseoli
Puccinia substriata	Uromyces appendiculatus
Paspalum secans	Phaseolus adenanthus
Himantia stellifera	Erysiphe polygoni
Meliola panici	Uromyces appendiculatus
Puccinia substriata	Zythia phaseoli
Paspalum virgatum	Phaseolus lathyroides
Phyllachora cornuospora	Uromyces appendiculatus
Passiflora foetida	Phaseolus lunatus
Helminthosporium Stahlii	Cercospora canescens
Passiflora rubra	Cercospora cruenta
Aecidium passifloriicola	Dimerium grammodes
Passiflora sexflora	Isariopsis griseola
Cercospora biformis	Physopella concors
Phyllosticta superficiale	Phaseolus max
Paullinia pinnata	Erysiphe polygoni
Dexteria pulchella	Phaseolus vulgaris
Meliola Hessii	Bacterium phaseoli
Meliola paulliniae	Cercospora canescens
Pavonia racemosa	Colletotrichum lindemuthianum
Uromyces pavoniae	Erysiphe polygoni
Peperomia hernandifolia	Isariopsis griseola
Uredo piperis	

Phaseolus vulgaris— <i>Cont.</i>	Piper aduncum— <i>Cont.</i>
<i>Physarum cinereum</i>	<i>Meliola glabra</i>
<i>Phytophthora phaseoli</i>	<i>Meliola glabroides</i>
<i>Phytophthora terrestris</i>	<i>Meliola piperis</i>
<i>Sclerotium Rolfsii</i>	<i>Piper blattarum</i>
<i>Uromyces appendiculatus</i>	<i>Meliola paucipes</i>
<i>Philodendron krebsii</i>	<i>Piper hispidum</i>
<i>Colletotrichum philodendri</i>	<i>Cercospora portoricensis</i>
<i>Meliola philodendri</i>	<i>Meliola contorta</i>
<i>Phoenix dactylifera</i>	<i>Piper macrophyllum</i>
<i>Graphiola phoenicis</i>	<i>Stilbella flava</i>
<i>Phoenix reclinata</i>	<i>Piper marginatum</i>
<i>Pestalozzia palmarum</i>	<i>Guignardia pipericola</i>
<i>Phyllanthus distichus</i>	<i>Piper medium</i>
<i>Schröteriaster fenestralis</i>	<i>Cephaleuros virescens</i>
<i>Phyllanthus grandifolius</i>	<i>Cyclodothis pulchella</i>
<i>Schröteriaster fenestralis</i>	<i>Guignardia pipericola</i>
<i>Phyllanthus niruri</i>	<i>Meliola tortuosa</i>
<i>Schröteriaster fenestralis</i>	<i>Ramularia cylindrosporioides</i>
<i>Phyllanthus nobilis</i>	<i>Piper peltatum</i>
<i>Aecidium favaceum</i>	<i>Cercospora portoricensis</i>
<i>Physalis sp.</i>	<i>Meliola tortuosa</i>
<i>Entyloma australe</i>	<i>Piper umbellatum</i>
<i>Phytolacca icosandra</i>	<i>Cercospora portoricensis</i>
<i>Cercospora flagellaris</i>	<i>Colletotrichum piperis</i>
<i>Pilea sp.</i>	<i>Meliola tortuosa</i>
<i>Meliola Earlii</i>	<i>Piptadenia peregrina</i>
<i>Pilea nummularifolia</i>	<i>Ravenelia cebil</i>
<i>Meliola Earlii</i>	<i>Pisum sativum</i>
<i>Pilea parietaria</i>	<i>Cercospora pisa-sativæ</i>
<i>Meliola Earlii</i>	<i>Erysiphe polygoni</i>
<i>Meliola triloba</i>	<i>Pitcairnia angustifolia</i>
<i>Pilocarpus racemosus</i>	<i>Diachea leucopoda</i>
<i>Meliola pilocarpi</i>	<i>Pithecolobium saman</i>
<i>Piper sp.</i>	<i>Microstroma</i>
<i>Triposporium stelligerum</i>	<i>Pithecolobium unguis-cati</i>
<i>Piper aduncum</i>	<i>Colletotrichum erythrinæ</i>
<i>Cercospora portoricensis</i>	<i>Pestalozzia funerea</i>
<i>Meliola gaillardiana</i>	<i>Phyllosticta pithecolobii</i>
	<i>Phyllosticta pithecolobii</i> var. <i>monensis</i>

<i>Pityrogramma calomelanos</i>	<i>Psychotria bertiana</i>
<i>Septoria pityrogrammæ</i>	<i>Meliola glabra</i> var. <i>psychotriæ</i>
<i>Uredo gymnogrammes</i>	
<i>Plucheä odorata</i>	<i>Psychotria grandis</i>
<i>Uredo plucheæ</i>	<i>Meliola glabra</i> var. <i>psychotriæ</i>
<i>Plucheä purpurascens</i>	
<i>Uredo plucheæ</i>	<i>Psychotria patens</i>
<i>Plumiera alba</i>	<i>Puccinia fallaciosa</i>
<i>Coleosporium plumieræ</i>	<i>Psychotria pubescens</i>
<i>Plumiera Krugii</i>	<i>Meliola glabra</i> var. <i>psychotriæ</i>
<i>Coleosporium plumieræ</i>	
<i>Meliola tabernæmontanæ</i>	<i>Psychotria uliginosa</i>
<i>Plumiera obtusa</i>	<i>Stilbella flava</i>
<i>Coleosporium plumieræ</i>	
<i>Podocarpus coriaceus</i>	Q
<i>Corynelia oreophila</i>	<i>Quamoclit coccinea</i>
<i>Poinciana pulcherrima</i>	<i>Coleosporium ipomoeæ</i>
<i>Pestalozzia funerea</i>	
<i>Polypodium</i> sp.	R
<i>Cercospora phyllitidis</i>	<i>Rajania cordata</i>
<i>Polyscias guilfoylei</i> var. <i>victoriæ</i>	<i>Uredo dioscoreæ</i>
<i>Cephaleuros virescens</i>	<i>Randia aculeata</i>
<i>Nectria episphaeria</i>	<i>Aecidium abscedens</i>
<i>Portulaca oleracea</i>	<i>Meliola psychotriæ</i>
<i>Albugo portulacæ</i>	<i>Podosporium pallidum</i>
<i>Prescottia oligantha</i>	
<i>Uredo gynandrearum</i>	<i>Rauwolfia nitida</i>
<i>Pseudelephantopus spicatus</i>	<i>Meliola tabernæmontanæ</i>
<i>Meliola cyclopoda</i>	<i>Rauwolfia tetraphylla</i>
<i>Psidium guajava</i>	<i>Meliola tabernæmontanæ</i>
<i>Cephaleuros virescens</i>	<i>Rhipsalis cassytha</i>
<i>Glomerella psidii</i>	<i>Phæospora cacticola</i>
<i>Meliola psidii</i>	<i>Rhizophora mangle</i>
<i>Puccinia psidii</i>	<i>Anthostomella rhizomorphæ</i>
<i>Psychotria</i> sp.	<i>Rhynchosia reticulata</i>
<i>Meliola glabra</i> var. <i>psychotriæ</i>	<i>Synchytrium decipiens</i>
<i>Meliola psychotriæ</i>	<i>Ricinus communis</i>
	<i>Cercospora ricinella</i>
	<i>Rivina humilis</i>
	<i>Puccinia rivinæ</i>

Rosa spp.	Saccharum officinarum
Actinonema rosæ	Arcyria cinerea
Cercospora rosicola	Arcyria denudata
Septoria rosæ	Arthrinium saccharicola
Sphærotheca humuli	Arthrobotrys superba
Rourea glabra	Aspergillus flavus
Micropeltis æruginescens	Aspergillus niger
Roystonea borinquena	Asterostroma cervicolor
Meliola denticulata	Basisporum gallarum
Rubus sp.	Cercospora longipes
Meliola puiggarii	Cercospora vaginæ
Rudolphia volubilis	Chromocrea gelatinosa
Meliola rudolphiae	Chromocreopsis striispora
Triposporium stelligerum	Cladoderris dentritica
Rynchospora aurea	Cladosporium herbarum
Cintractia utriculicola	Colletotrichum falcatum
Meliola circinans	Corticium arachnoideum
Puccinia angustatoides	Craterium aureum
Rynchospora corymbosa	Craterium leucocephalum
Cintractia leucoderma	Cyathus pœppigii
Cintractia utriculicola	Cytospora sacchari
Puccinia angustatoides	Dictyidium cancellatum
Rynchospora cyperoides	Diplodia cacaoicola
Guignardia rhynchosporæ	Eurotium argentinum
Puccinia angustatoides	Fuligo septica
Rynchospora distans	Gibberella pulicaris
Uromyces rhyncosporæ	Graphium sacchari
Rynchospora gigantea	Guepinia palmiceps
Cintractia leucoderma	Guepinia spathulata
Meliola circinans	Helminthosporium sacchari
Rynchospora micrantha	Himantia stellifera
Uromyces rhyncosporæ	Hormiactella sacchari
Rynchospora setacea	Hydnnum sacchari
Uromyces rhyncosporæ	Hypocrea rufa
Rytix granularis	Lachnea cubensis
Opidiella uredinis	Lentinus crinitus
Puccinia levis	Leptosphaeria saechari
s	
Sabicea aspera	Lycogala epidendrum
Uredo sabiceicola	Lycoperdon albidum
	Lycoperdon pusillum
	Lycoperdon pyriforme

Saccharum officinarum—*Cont.*
Marasmius borinquensis
Marasmius Hiorami
Marasmius sacchari
Marasmius synodicus
Melanconium saechari
Melanconium saccharinum
Merulius byssoides
Monilia sitophila
Myrothecium verrucaria
Nectria flavociliata
Nectria laurentiana
Odontia sacchari
Odontia saccharicola
Peniophora cinerea
Peniophora flavidо-alba
Periconia sacchari
Phyllosticta sacchari
Physalospora tucumanensis
Physarum compressum
Physarum nodulosum
Polystictus occidentalis
Polystictus sanguineus
Polystictus sinuosus
Rosellinia paraguayensis
Rosellinia pulveracea
Schizophyllum commune
Scirrhia lophodermioides
Sclerotium griseum
Sclerotium Rolfsii
Scytinotus distantifolius
Septonema sacchari
Spegazzinia ornata
Sphaerella sacchari
Sphærobolus stellatus
Stemonitis fusca
Stemonitis splendens
Tetracoccosporis saechari
Tetraploa aristata
Thielaviopsis paradoxa
Trametes nivosa

Saccharum officinarum—*Cont.*
Tremellodendron simplex
Trichoderma lignorum
Tubercularia saccharicola
Valsa sacchari
Valsaria subtropica
Vermicularia graminicola
Verticiladium graminicolum
Xylaria apiculata
Sabinea punicea
Uromyces sabineae
Salvia coccinea
Puccinia farinacea
Salvia occidentalis
Puccinia salviicola
Sauvagesia erecta
Meliola glabra
Meliola glabroides
Uredo sauvagesiae
Schæfferia frutescens
Microthyrium Urbani
Schlegelia
Meliola glabroides var. *schlegeliae*
Schlegelia brachyantha
Phyllachora nitens
Scirpus lacustris
Puccinia scirpi
Scleria sp.
Meliola cyperi
Scleria canescens
Uromyces scleriae
Scleria cubensis
Puccinia scleriae
Scleria hirtella
Puccinia scleriicola
Scleria pterota
Phyllachora scleriae
Puccinia scleriae
Uromyces scleriae

Sechium edule	Solanum melongena
Cercospora sechiae	Bacillus solanacearum
Heminthosporium sechiicolum	Cladosporium herbarum
Phyllosticta sechii	Gloeosporium melongenæ
Securidaca virgata	Phomopsis vexans
Phyllachora perforans	Sclerotium Rolfsii
Serjania polyphylla	Solanum nigrum
Meliola serjaniæ	Cercospora rigospora
Sesamum orientale	Solanum persicifolium
Cercospora sesami	Meliola glabroides
Sida sp.	Solanum rugosum
Cercospora densissima	Meliola glabroides
Sida carpinifolia	Solanum torvum
Asterina sidæ	Aecidium tubulosum
Dimerosporium appendiculatum	Cercospora trichophila
Sida glutinosa	Cladosporium fulvum
Puccinia heterospora	Erysiphe eichoracearum
Sida hederifolia	Puccinia substriata
Puccinia heterospora	Solanum tuberosum
Sida humilis	Alternaria solani
Puccinia heterospora	Phytophthora infestans
Sida procumbens	Rhizoctonia solani (?)
Puccinia heterospora	Solanum verbascifolium
Sida spinosa	Cercospora trichophila
Puccinia heterospora	Somidesia lindeniana
Sida urens	Cephaleuros virescens
Meliola molleriana	Spermacoce riparia
Puccinia heterospora	Puccinia lateritia
Simaruba tulæ	Spermacoce tenuior
Meliola glabroides	Puccinia lateritia
Smilax sp.	Sphenoclea zeylanica
Meliola smilacis	Cercosporidium Helleri
Smilax coriacea	Spondias mombin
Meliola smilacis	Meliola comocladiæ
Smilax domingensis	Sporobolus indicus
Puccinia smilacis	Helminthosporium Ravenellii
Solanum jamaicense	Uromyces ignobilis
Meliola solani	Sporobolus virginicus
	Uromyces ignobilis
	Stenolobium stans
	Prospodium appendiculatum

Stenorhynchus lanceolatus	Tectaria marteniensis
Uredo pustulata	Uredo gymnogrammes
Stenotaphrum secundatum	Teraninus uneinatus
Meliola stenotaphri	Cercospora maricaoensis
Ustilago affinis	Meliola bicornis
Stigmaphylon lingulatum	Uredo concors
Puccinia inflata	Uromyces cologaniæ
Stizolobium sp.	Tetragastris balsamifera
Cercospora mucunæ	Meliola amphitricha
Stizolobium aterinum	Tetrazygia sp.
Cercospora mucunæ	Guignardia tetrazygiæ
Struchium sparganophorum	Phyllachora peribebuyensis
Uredo sparganophori	Thalia geniculata
Synedrella nodiflora	Puccinia cannæ
Puccinia synedrellæ	Theobroma cacao
Stilbella flava	Cephaleuros virescens
Syntherisma digitata	Colletotrichum Cradwickii
Piricularia grisea	Creonectria Bainii
Puccinia substriata	Diplodia cacaoicola
Syntherisma sanguinalis	Nectria colorans
Mycosphærella maydis	Thouinia sp.
T	
Tabebuia haemantha	Cladosporium hypophloem
Meliola bidentata	Thouinia striata
Mycosphærella tabebuiæ	Cercospora thouiniæ
Tabernæmontana oppositifolia	Meliola thouiniæ
Meliola tabernaemontanæ	Thrinax
Tagetes erecta	Helminthosporium spiculiferum
Puccinia tageticola	Thrinax ponceana
Tagetes patula	Meliola furcata
Puccinia tageticola	Thrinax præceps
Tamonea sp.	Graphiola phœnicis
Hypocrella tamoneæ	Meliola furcata
Tecoma sp.	Tournefortia bicolor
Meliola tecomæ	Aecidium tournefortiæ
Tecoma pentaphylla	Tournefortia hirsutissima
Meliola bidentata	Aecidium tournefortiæ
Meliola tecomæ	Meliola longipoda
Prospodium plagiopus	Tournefortia microphylla
	Aecidium tournefortiæ

Trichilia pallida
 Uredo trichiliae
 Trichostigma octandrum
 Cercospora trichostigmæ
 Linospora trichostigmæ
 Puccinia rivinæ
 Triticum vulgare
 Sclerotium Rolfsii
 Triumfetta lappula
 Pucciniosira pallidula
 Triumfetta rhomboidea
 Pucciniosira pallidula
 Triumfetta semitriloba
 Meliola triumfettæ
 Phyllosticta Stevensii
 Pucciniosira pallidula
 Turpinia panniculata
 Meliola guignardi

u

Urechites lutea
 Phyllosticta glaucispora

v

Vachellia farnesiana
 Ravenelia siliquæ
 Valerianodes cayennensis
 Endophyllum stachytarphetæ
 Meliola glabroides
 Valerianodes jamaicensis
 Puccinia Urbaniana
 Valerianodes strigosa
 Puccinia Urbaniana
 Valota insularis
 Phyllachora graminis
 Puccinia substriata
 Sphaelotheca panici-leuco-
 phæi
 Vanilla Eggersii
 Glomerella cingulata

Vanilla planifolia
 Cephaeuros virescens
 Fusarium solani
 Gloeosporium (vanillæ) rufo-
 maculans
 Pellicularia koleroga
 Varronia sp.
 Helminthosporium varroniæ
 Meliola molleriana
 Varronia alba
 Metaspæeria abortiva
 Verbena sp.
 Sphaerotheca humuli
 Vernonia albicaulis
 Argomyces insulanus
 Argomyces vernoniæ
 Vernonia borinquensis
 Argomyces vernoniæ
 Vernonia longifolia
 Argomyces insulanus
 Vernonia phyllostachya
 Argomyces vernoniæ
 Vicia faba
 Sclerotium Rolfsii
 Vigna repens
 Dimerium grammodes
 Erysiphe polygoni
 Uromyces appendiculatus
 Vigna vexillata
 Hyponectria phaseoli
 Uromyces appendiculatus
 Vigna unguiculata
 Cercospora cruenta
 Cercospora vignæ
 Erysiphe polygoni
 Physarum cinereum
 Viola sp.
 Cercospora violæ
 Gloeosporium violæ

Vitex divaricata

Ophiobolus barbatus

Vitis vinifera

Physopella vitis

w

Wedelia lanceolata

Uredo vicina

Wedelia reticulata

Uromyces pianhyensis

Wedelia trilobata

Endophyllum wedeliae

Willoughbæa sp.

Meliola compositarum

Winterana canella

Meliola thouiniaæ

Triposporium stelligerum

Wissadula periplocifolia

Puccinia heterospora

x

Xanthium longirostre

Puccinia xanthii

Sphaerotheca humuli

Xanthosoma sagittifolium

Periconia pycnospora

z

Zamia integrifolia

Triposporium stelligerum

Zea mays

Helminthosporium tureinum

Himantia stellifera

Phyllachora maydis

Sclerotium griseum

Uredo pallida

Ustilago zeæ

Zornia diphylla

Puccinia zorniae

LITERATURE CITED.

(1) ARTHUR, J. C.
1907. *Uredinales*. In North American Flora, v. 7, pt. 2, pp. 83-160. A few references to Porto Rican species.

(2) ARTHUR, J. C.
1912. *Uredinales*. In North American Flora, v. 7, pt. 3, pp. 161-268. References to Porto Rican species.

(3) ARTHUR, J. C.
1915. *Uredinales* of Porto Rico based on collections by F. L. Stevens. In Myc., v. 7, no. 4, pp. 168-196; no. 5, pp. 225-227; no. 6, pp. 315-332; v. 8, no. 1, pp. 16-33 (1916).

(4) ARTHUR, J. C.
1917. *Uredinales* of Porto Rico based on collections by H. H. Whetzel and E. W. Olive. In Myc., v. 9, no. 2, pp. 55-104.

(5) ARTHUR, J. C.
1917. Rusts of the West Indies. In Torreya, v. 17, pp. 24-27.

(6) BARRETT, O. W.
1904. Fungus diseases. In Ann. Report P. R. Agric. Exp. Sta. 1903, pp. 449-50.

(7) BARRETT, O. W.
1905. Diseases of *Yautía*. In Bul. 6, P. R. Agric. Exp. Sta., pp. 22-23.

(8) BARRETT, O. W.
1905. Fungus diseases. In Report P. R. Agric. Exp. Sta. 1904, pp. 397-399.

(9) BARRETT, O. W.
1906. Report of the entomologist and botanist. In Report P. R. Agric. Exp. Sta. 1905, pp. 21-23.

(10) BRANDES, E. W.
1916. Report of the plant pathologist. In Report P. R. Agric. Exp. Sta. 1915, pp. 34-35.

(11) BRANDES, E. W.
1918. Report of the plant pathologist. In Report Federal Agric. Exp. Sta. P. R. 1916, pp. 28-31.

(12) BRITTON, N. L.
1915. Vegetation of Mona Island. *In* Ann. Mo. Bot. Garden, v. 2, nos. 1, 2, pp. 33-58. Contains a list of fungi.

(13) BURT, E. A.
1917. *Odontia sacchari* and *Odontia saccharicola*, new species on sugar cane. *In* Ann. Mo. Bot. Garden, v. 4, no. 3, pp. 233-236, figs. 2.

(14) CLINTON, G. P.
1906. *Ustilaginales*. *In* North American Flora, v. 7, pt. 1, pp. 1-82. A few references to Porto Rican species.

(15) COOK, MEL. T.
1913. Diseases of tropical plants. London. Scattering references to Porto Rican plant diseases.

(16) DALBEY, NORA E.
1917. Corn disease caused by *Phyllachora graminis*. *In* Phytopath., v. 7, no. 1, pp. 57-58.

(17) DALBEY, NORA E.
1918. *Phyllachora* as the cause of a disease of corn, and a general consideration of the genus *Phyllachora*. *In* Trans. Ill. Acad. of Sci., vol. 10 (1917), pp. 230-248, 9 fig.

(18) DEARNESS, JOHN.
1917. New or noteworthy North American fungi. *In* Myc., v. 9, No. 6, pp. 345-364.

(19) EARLE, F. S.
1900. Some fungi from Porto Rico. *In* Muhlenbergia, v. 1, no. 1, pp. 10-17.

(20) EARLE, F. S.
1904. Report on observations in Porto Rico. *In* Report P. R. Agric. Exp. Sta. 1903, pp. 454-468. Also in Jour. N. Y. Bot. Garden, vol. 4.

(21) EARLE, F. S.
1905. Mycological studies II. *In* Bul. N. Y. Bot. Garden, v. 3, no. 11, pp. 301-312.

(22) FAWCETT, G. L.
1909. Report of the plant pathologist. *In* Report P. R. Exp. Sta. 1908, pp. 35-36.

(23) FAWCETT, G. L.
1910. Report of the plant pathologist. *In* Report P. R. Agric. Exp. Sta. 1909, pp. 35-36.

(24) FAWCETT, G. L.
1911. Report of the pathologist. *In Report P. R. Fed. Agric. Exp. Sta., 1910*, pp. 35-6.

(25) FAWCETT, G. L.
1912. Report of the pathologist. *In Report P. R. Fed. Agric. Exp. Sta., 1911*, pp. 37-39.

(26) FAWCETT, G. L.
1913. Report of the pathologist. *In Report P. R. Fed. Exp. Sta., 1912*, pp. 31-33.

(27) FAWCETT, G. L.
1914. Report of the pathologist. *In Report P. R. Fed. Exp. Sta., 1913*, pp. 26-29.

(28) FAWCETT, G. L.
1914. *Pellicularia koleroga* on coffee in Porto Rico. *In Jour. of Agric. Research*, v. 2, no. 3, pp. 231-3, 3 fig.

(29) FAWCETT, G. L.
1914. The rot of citrus fruit. *In P. R. Progress*, v. 8, no. 1, Dec. 23, pp. 5, 7.

(30) FAWCETT, G. L.
1915. Report of the pathologist. *In Report P. R. Fed. Exp. Sta., 1914*, pp. 27-30.

(31) FAWCETT, G. L.
1915. Fungus diseases of coffee in Porto Rico. *Federal Exp. Sta. P. R., Bul. 17*, pp. 1-29, 8 pls.

(32) FAWCETT, G. L.
1916. A Porto Rican disease of bananas. *In Report P. R. Fed. Agric. Exp. Sta., 1915*, pp. 36-41.

(33) FINK, BRUCE.
1918. The distribution of fungi in Porto Rico. *In Myc.*, v. 10, no. 2, pp. 58-61.

(34) GARMAN, PHILLIP.
1915. Some Porto Rican parasitic fungi. *In Myc.*, v. 7, no. 6, pp. 333-340, 1 pl.

(35) HELLER, A. A.
1900. Other Porto Rican fungi. *In Muhlenbergia*, v. 1, pp. 18-19.

(36) HENRICKSEN, H. C.
1906. Vegetable growing in Porto Rico. *P. R. Agric. Exp. Sta. Bul. 7*, pp. 1-58. Mentions fungus diseases of the various vegetables.

(37) HIGLEY, RUTH.
1918. Notes on *Cephaeuros virescens*. In Trans. Ill. Aead. of Sci., vol. 10 (1917), pp. 256-258.

(38) JOHNSTON, J. R.
1911. First report of the pathologist. In Bul. 1, Exp. Sta. Sugar Prod. Assoc. of P. R., p. 35-48.

(39) JOHNSTON, JOHN R.
1912. Cultivation of the coconut in Porto Rico. In 1st Ann. Report P. R. Hort. Soc., pp. 47-55. A section devoted to coconut diseases.

(40) JOHNSTON, J. R.
1912. Report of the pathologist. In Second Ann. Report, Exp. Sta. Sugar Prod. Assoc. of P. R., 1911-12 (Bul. 2), pp. 23-28.

(41) JOHNSTON, J. R.
1913. Notes on the fungus diseases of sugar cane in Porto Rico. Abstract. In Phytopath., v. 3, no. 1, p. 75.

(42) JOHNSTON, J. R.
1913. The nature of fungus diseases of plants. Exp. Sta. Sug. Prod. Assoc. of Porto Rico, Circ. 2, pp. 1-25, 9 fig.

(43) JOHNSTON, J. R.
1913. The relation of cane cultivation to the control of fungus diseases. Exp. Sta. Sug. Prod. Assoc. of P. R., Circ. no. 3, pp. 1-13.

(44) JOHNSTON, J. R.
1913. Selection and treatment of cane seed. Exp. Sta. Sug. Prod. Assoc. of P. R., Bul. 6, p. 1-29.

(45) JOHNSTON, J. R.
1913. Third report of the pathologist. In Third Ann. Report Exp. Sta. Sug. Prod. Assoc. of P. R. (Bul. 5), pp. 22-24.

(46) JOHNSTON, JOHN R.
1915. The entomogenous fungi of Porto Rico. Bul. 10, Insular Exp. Sta. (Bd. of Comm. of Agric. of P. R.), pp. 1-33, pls. 9.

(47) JOHNSTON, J. R.
1917. History and cause of the rind disease of sugar cane. In Journ. Bd. of Comm. of Agric. of P. R., v. 1, no. 1, pp. 17-45, 1 pl.

(48) JOHNSTON, JOHN R., and STEVENSON, JOHN A.
1917. Sugar-cane fungi and diseases of Porto Rico. *In Journ. Dept. of Agric. of P. R.*, v. 1, no. 4, pp. 177-251, 14 pls.

(49) KING, W. W.
1917. Some observations upon the skin diseases of Porto Rico. *In The Journ. of Cutaneous Diseases*, v. 35, no. 6, pp. 459-480, fig. 5.

(50) KLOTZSCH, J.
1852. Schwanecke collection of fungi. *In Linnæa*, v. 25, pp. 364-366.

(51) LAMKEY, ERNEST M.
1917. New or noteworthy fungi from Porto Rico. Presented before the tenth annual meeting of the Illinois Academy of Science, Galesburg, Illinois. Covered in part by Dr. Stevens (82).

(52) LLOYD, C. G.
1916. *Lycoperdon albidum*. *In Myc. Notes*, no. 42, p. 582, 1 fig.

(53) LLOYD, C. G.
1917. *Polystictus sinuosus*. *In Myc. Notes*, No. 45, p. 626, 1 fig.

(54) LLOYD, C. G.
1917. Notes on Xylarias. *In Myc. Notes*, no. 48, pp. 675-7, 6 figs.

(55) LLOYD, C. G.
1917. *Xylaria fimbriata*. *In Myc. Notes* 51, p. 726, 3 fig.

(56) LOEW, OSCAR.
1908. Diseases of tobacco. *In Report P. R. Agric. Exp. Sta.* 1907, pp. 16-18.

(57) LOEW, OSCAR.
1908. The fermentation of cacao and coffee. *In Report P. R. Agric. Exp. Sta.*, 1907, pp. 41-55.

(58) MANN, C. W.
1914. The handling of Porto Rican oranges, grapefruit, and pineapples. *Bul. 7, Insular Exp. Sta. P. R.*, pp. 1-36, 24 figs. Reference to *Penicillium* and *Diplodia* as fruit rots.

(59) MAY, D. W.
1910. Diseases of cane. *In Bul. 9, P. R. Agric. Exp. Sta.* pp. 38-9.

(60) MILES, L. E.
 1917. Some diseases of economic plants in Porto Rico. *In* *Phytopath.*, v. 7, no. 5, pp. 345-351, fig. 3. Lists a few unimportant diseases.

(61) MILES, L. E.
 1918. Some new Porto Rican fungi. *In* *Trans. Ill. Acad. of Sci.*, vol. 10 (1917), pp. 249-255, fig. 3.

(62) MURRILL, W. A.
 1907. *Polyporaceæ*. *In* *North American Flora*, v. 9, pt. 1, pp. 1-72, and pt. 2, pp. 73-131. Contains scattering references to Porto Rican polypores.

(63) MURRILL, W. A.
 1911. *Agaricaceæ* of tropical North America I. *In* *Myc.*, v. 3, no. 1, pp. 23-36.

(64) MURRILL, W. A.
 1915. *Agaricaceæ*. *In* *North American Flora*, v. 9, pt. 4, pp. 201-296. References to Porto Rico agarics and description of a number of new species.

(65) MURRILL, W. A.
 1915. Tropical polypores. Pp. 1-114. New York. Contains references to Porto Rican polypores.

(66) MURRILL, W. A.
 1916. *Agaricaceæ*. *In* *North American Flora*, v. 9, pt. 5, pp. 297-374. Several references to Porto Rican species.

(67) MURRILL, W. A.
 1918. The *Agaricaceæ* of tropical North America—VII. *In* *Myc.*, v. 10, no. 1, pp. 15-33.

(68) MURRILL, WM. A.
 1918. The *Agaricaceæ* of tropical North America—VIII. *In* *Myc.*, v. 10, no. 2, pp. 62-85. Describes one new species and cites another.

(69) NORTHRUP, ZAE.
 1914. A bacterial disease of June-beetle larvae, *Lachnostenra* spp. *Mich. Agric. Exp. Sta., Tech. Bul.* 18, pp. 1-37, 22 figs.

(70) OLIVE, E. W.
 1916. Report on a trip to study and collect rusts and other parasitic fungi of Porto Rico. *In* *Brook. Bot. Garden Rec.*, v. 5, no. 3, pp. 117-121.

(71) OLIVE, E. W. and WHETZEL, H. H.
1917. Endophyllum-like rusts of Porto Rico. *In Amer. Journ. of Bot.*, v. 4, no. 1, pp. 44-52, 3 pl.

(72) SEAVER, F. J.
1909. The *Hypocreales* of North America—II. *In Myc.*, v. 1, no. 5, pp. 177-207, 1 pl. Two references to Porto Rican species.

(73) SEAVER, F. J.
1910. *Hypocreales*. *In N. Amer. Flora*, v. 3, pt. 1, pp. 1-88. A few references to Porto Rican species.

(74) SEAVER, F. J.
1910. *Hypocreales* of North America—III. *In Myc.*, v. 2, no. 2, pp. 48-93, 2 pls.

(75) SEAVER, F. J.
1916. North American species of *Ascodesmis*. *In Myc.*, v. 8, no. 1, pp. 1-4, 1 pl.

(76) SINTENIS, P.
1893. Pilzen auf der insel Portorico 1884-1887 gesammelten. *In Engler Bot. Jahrb.*, v. 17, pp. 489-501.

(77) SMITH, ERWIN F.
1914. Brown rot of *Solanaceæ*. *In Bacteria in relation to plant diseases*—III, p. 175, fig. 1.

(78) SMYTH, E. G.
1917. The white-grubs injuring the sugar cane in Porto Rico. *In Journ. Dept. of Agric. of P. R.*, v. 1, no. 3, pp. 141-169.

(79) STEVENS, F. L.
1916. Collecting plants in Porto Rico. *In Journ. N. Y. Bot. Garden*, v. 17, no. 198, pp. 82-85.

(80) STEVENS, F. L.
1916. The genus *Meliola* in Porto Rico. *Ill. Biog. Monog.*, v. 2, no. 4, pp. 1-86, 5 pls.

(81) STEVENS, F. L.
1917. Noteworthy Porto Rican plant diseases. *In Phytopath.*, v. 7, no. 2, pp. 130-134.

(82) STEVENS, F. L.
1918. Porto Rican fungi, old and new. *In Trans. Ill. Acad. of Sci.*, vol. 10 (1917), pp. 162-218, 13 figs.

(83) STEVENS, F. L.
1918. Melioliculus parasites and commensals. *In Bot. Gaz.* (In press.) Species listed not cited in present paper.

(84) STEVENSON, JOHN A.
1916. Report of the pathologist. *In* 4th Ann. Report Bd. of Comm. of Agric. of Porto Rico, pp. 33-44.

(85) STEVENSON, JOHN A.
1916. An enemy of citrus insects. *In* P. R. Progress, April 10, p. 4. *Microcera fujikuroi*.

(86) STEVENSON, JOHN A.
1916. Pink disease of citrus. *In* P. R. Progress, v. 10, no. 14, p. 4. *Corticium salmonicolor*.

(87) STEVENSON, JOHN A.
1916. Black rot of cane cuttings. *In* P. R. Progress, v. 11, no. 26, Dec. 29.

(88) STEVENSON, JOHN A.
1916. Notes on citrus scab. *In* P. R. Progress, v. 11, no. 26, p. 3.

(89) STEVENSON, JOHN A.
1917. Report of the pathologist. *In* 5th report Bd. of Comm. of Agric. P. R., pp. 35-74.

(90) STEVENSON, JOHN A.
1917. Diseases of vegetable and garden crops. *In* Journ. of Dept. of Agric. of P. R., v. 1, no. 2, pp. 93-117.

(91) STEVENSON, JOHN A.
1917. Enfermedad de la caña de azúcar en Puerto Rico. *In* El Mundo Azucarero, v. 5, no. 1, pp. 19-24, 10 figs. *In* English *in* La. Planter, v. 59, no. 5, pp. 76-78.

(92) STEVENSON, JOHN A.
1917. Wood rot of citrus trees. Insular Exp. Sta. P. R. Circ. 10, pp. 1-10.

(93) STEVENSON, JOHN A.
1917. Citrus scab in Porto Rico. Bul. 17, Insular Exp. Sta. P. R., pp. 1-17.

(94) STEVENSON, JOHN A.
1918. Report of the pathologist. *In* report of the Insular Exp. Sta. of P. R. 1916-17, pp. 37-98.

(95) STEVENSON, JOHN A.
1918. The green muscardine fungus in Porto Rico. *In* Journ. of the Dept. of Agric. of P. R., v. 2, no. 1, pp. 19-32, 1 pl.

(96) STEVENSON, JOHN A.
1918. Citrus diseases of Porto Rico. *In* Journ. Dept. of Agric. of P. R., v. 2, no. 2, pp. 43-123, fig. 23.

(97) THOMAS, H. E.
1918. Cultures of *Accidium tubulosum* and *A. Passifloriicola*. *In* *Phytopath.*, v. 8, no. 4, pp. 163-4.

(98) TOWER, W. V.
1907. Report of the entomologist and plant pathologist. *In* *Report P. R. Agric. Exp. Sta.*, 1906, pp. 25-28.

(99) TOWER, W. V.
1908. Report of the entomologist and pathologist. *In* *Report P. R. Agric. Exp. Sta.*, 1907, p. 37.

(100) TOWER, W. V.
1911. Insects injurious to citrus fruits and methods for combating them. *P. R. Exp. Sta. Bul.* 10, pp. 1-35. Mentions certain of the entomogenous fungi.

(101) WILSON, G. W.
1907. Studies in North American *Peronosporales*—1. The genus *Albugo*. *In* *Bul. Tor. Bot. Club*, v. 34, no. 1, pp. 61-84. Also separate as Contribution no. 90 of the N. Y. Bot. Garden. Notes of occurrence of certain species in Porto Rico.

(102) WILSON, PERCY.
1917. The Vegetation of Vieques Island. *In* *Bul. N. Y. Bot. Garden*, v. 8, no. 31, pp. 379-409. Includes a list of fungi.

(103) YOUNG, ESTHER.
1915. Studies in Porto Rican parasitic fungi—I. *In* *Myc.*, v. 7, no. 3, pp. 143-150.

(104) YOUNG, ESTHER.
1916. Studies in Porto Rican parasitic fungi—II. *In* *Myc.*, v. 8, no. 1, pp. 42-46.

(105) JOHNSTON, JOHN R., *et al.*
1918. Diseases of sugar-cane in tropical and subtropical America, especially the West Indies. *In* *West Ind. Bul.*, v. 16, no. 4, pp. 275-308, 7 pls.

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Z

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